Summary of 2019 Groundwater and Other Environmental Data

Waste Management Disposal Services of Maine, Inc.- Crossroads Landfill (WMDSM)
Norridgewock, Maine

Submitted to:

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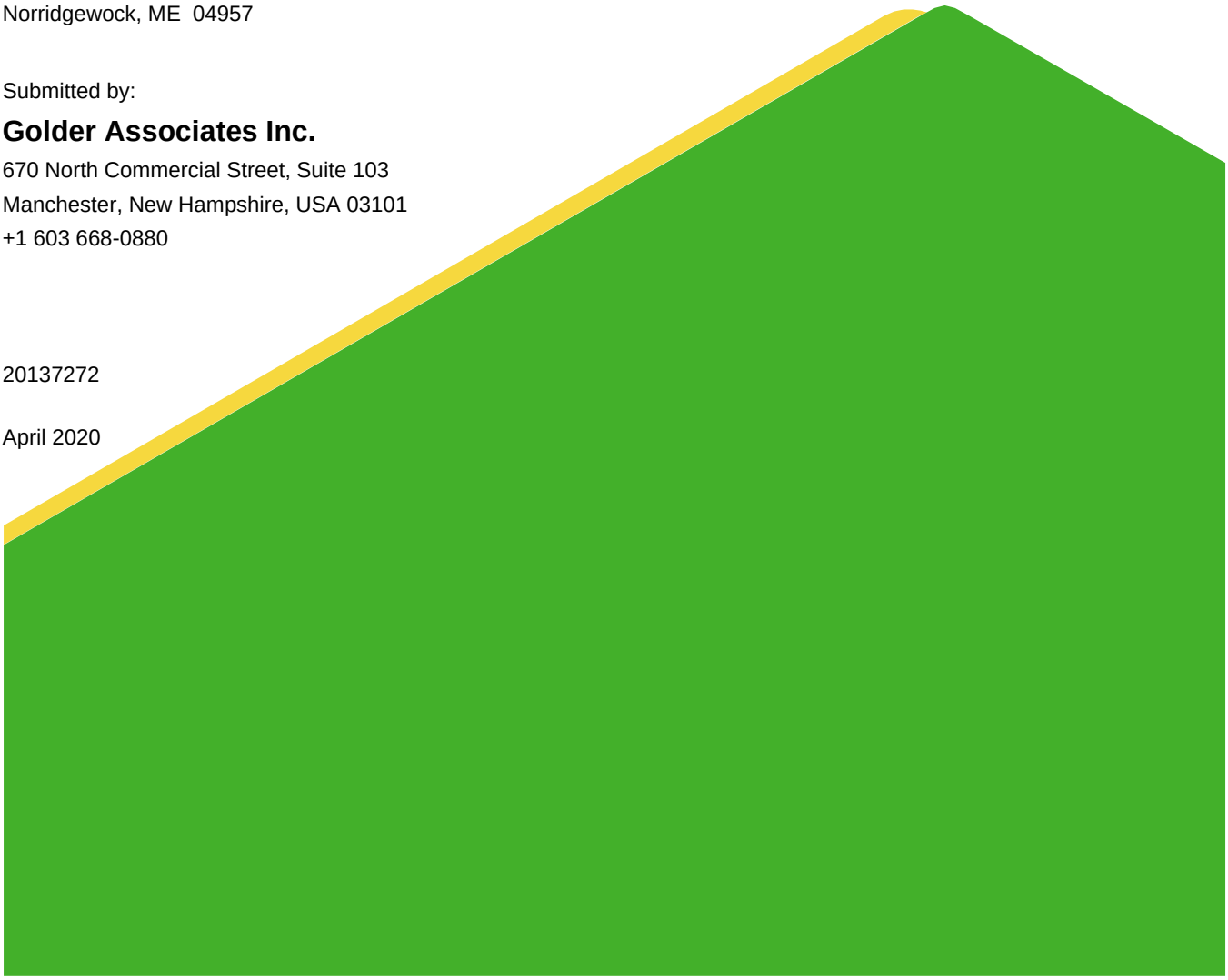


20137272

April 2020

April 22, 2020 Project No. 20137272

Ms. Linda Butler
Bureau of Remediation and Waste Management
Department of Environmental Protection
17 State House Station
Augusta, ME 04333

RE: SUMMARY OF 2019 GROUNDWATER AND OTHER ENVIRONMENTAL DATA CROSSROADS LANDFILL, NORRIDGEWOCK, MAINE

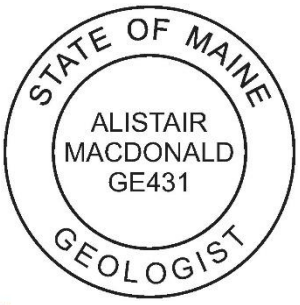
Dear Ms. Butler:

On behalf of Waste Management Disposal Services of Maine, Inc. (WMDSM), Golder Associates Inc. (Golder) is hereby submitting the Summary of 2019 Groundwater and Other Environmental Data for Crossroads Landfill located in Norridgewock, Maine. This report has been prepared to meet the requirements of Revision 6.3 of the Water Quality Monitoring Program (WQMP) dated March 16, 2018 as approved by the Maine Department of Environmental Protection in an email dated May 8, 2018 and Revision 6.4 of the WQMP dated October 31, 2019 and approved by MEDEP in an email dated November 14, 2019. This report includes the 2019 statistical evaluation performed according to the Statistical Analysis Program for Groundwater Quality Monitoring dated June 9, 2017 and approved by the MEDEP via email communication on June 23, 2017. This report also includes response to the comments received from the Maine Department of Environmental Protection titled “2018 Annual Report-Summary of 2018 Environmental Monitoring Information” dated August 6, 2019.

Should you have any questions regarding this report, please do not hesitate to call.

Sincerely,

Golder Associates Inc.



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1.0 INTRODUCTION

On behalf of Waste Management Disposal Services of Maine, Inc. (WMDSM), Golder Associates Inc. (Golder) prepared this report to fulfil the annual reporting requirements presented in Section 4D(4) of Chapter 401 of the State of Maine Solid Waste Management Rules (MSWMRs) and the sample reporting requirements presented in Section 3(C) of Chapter 405 of the MSWMRs for the Crossroads Landfill facility in Norridgewock, Maine (Figure 1).

Sampling was conducted in accordance with Revision 6.3 of the Water Quality Monitoring Program (WQMP) dated March 16, 2018, which was approved by the Maine Department of Environmental Protection (MEDEP) in an email dated May 8, 2018 and Revision 6.4 of the WQMP dated October 31, 2019 and approved by MEDEP in an email dated November 14, 2019. Katahdin Analytical Services Inc. (Katahdin) collected groundwater, surface water, leachate, and wick drain samples in May/June, August, and November/December 2019. WMDSM collected leachate flow data (daily) and landfill gas probe and manhole structure data (quarterly) in 2019. Eurofins TestAmerica Laboratories Inc. (TestAmerica) performed the laboratory analyses, except for the analysis of biochemical oxygen demand (BOD) and total E. Coli bacteria analyses, which were performed by Katahdin.

This report includes the following information:

- Evaluation of data gathered for each groundwater monitoring point, including:
  - time-series data plots and visual trend analysis
  - identification and discussion of volatile organic compound (VOC) detections, trace metal detections, values outside of historical ranges or values greater than primary drinking water standards
  - groundwater potentiometric surface contour maps for the bedrock, till, and phreatic units
  - a statistical analysis and report
- Evaluation of data gathered for each surface water monitoring point, including:
  - time-series data plots for a subset of indicator parameters and visual trend analysis
  - identification and discussion of trace metal detections, values outside of historical ranges or values greater than surface water monitoring criteria
- Evaluation of the quantity and quality of leachate generated
- Evaluation of the quantity and quality of liquid in the leak detection and removal system
- Evaluation of the data gathered for each wick drain monitoring location
- Evaluation of landfill gas monitoring data
- Evaluation of the condition of each monitoring well
- Changes to the WQMP
- Response to MEDEP's August 6, 2019 comments on the 2018 Annual Report-Summary of 2018 Environmental Monitoring Information" (Appendix N)

2.0 SAMPLE COLLECTION

Groundwater and surface water sampling locations are identified in Figure 2. Leachate and underdrain sampling locations are identified in Figure 3. Field notes and laboratory analytical reports from the 2019 sampling events are provided as Appendices A and B, respectively.

2.1 Groundwater and Surface Water Level Monitoring

Katahdin measured groundwater levels in 62 wells and measured surface water levels at ten locations on April 26, 2019. Groundwater and surface water elevation measurement data are presented in Table 1. Figures 4, 5 and 6 present interpreted potentiometric surface contour maps for the phreatic, till, and bedrock units, respectively, based on the April 2019 water elevation data.

2.2 Groundwater Quality Sampling

Katahdin conducted the first tri-annual groundwater sampling event between May 3 and June 14, 2019. Katahdin collected groundwater quality samples from 47 of the 48 of the monitoring wells listed in Table 1 of the WQMP. Monitoring well W12-1E went dry during purging and could not be sampled. TestAmerica analyzed the samples for the annual event parameters listed in Table 1 of the WQMP. No samples were analyzed for dissolved metals because all field turbidity readings were less than 15 Nephelometric Turbidity Units (NTUs). Per the WQMP, analysis for total metals is only required when field turbidity values are above 15 NTUs.

Katahdin conducted the second and third tri-annual groundwater sampling events between August 5 and August 30, 2019 and between November 7 and December 19, 2019, respectively. Monitoring well W12-1E went dry during purging and could be not be sampled during the August sampling event, however, Katahdin was able to collect as sample during the November/December 2019 sampling event. TestAmerica analyzed for the parameters listed in Table 2 of the WQMP. The turbidity at 620A in November 2019 was above 15 NTUs, however, due to inadvertent oversight by field personnel, no filtered metal sample was collected.

2.3 Surface Water Quality Monitoring

Katahdin collected surface water samples on May 15, August 22, and November 18, 2019, from the ten sampling locations listed in Table 7 of the WQMP, including three background locations (SW-101, SW-9, and SW-C) and seven downgradient locations (SW-102, SW-201, SW-203, SW-204, SW-801, SW-A, and SW-B). TestAmerica analyzed the surface water samples for the parameters listed in Tables 5 and 6 of the WQMP except for BOD, which was analyzed by Katahdin.

2.4 Leachate Collection and Leak Detection Monitoring

2.4.1 Leachate Collection Monitoring

Katahdin completed TANK and leachate collection (LC) system monitoring in 2019 as follows:

- June 11 through 13, 2019 (first tri-annual event) - Katahdin collected samples from the TANK and the LC monitoring locations identified in Table 8 of the WQMP except for sampling location 45LC. 45LC was dry at the time of the sampling event and a sample was not collected.
- August 28, 2019 (second tri-annual event) - Katahdin collected samples from the TANK and LC monitoring locations identified in Table 10 of the WQMP (i.e., 8ALC, 8BLC, and 8CLC).

- On November 25 and December 10, 2019 (third tri-annual event) - Katahdin collected samples from the TANK and LC monitoring locations identified in Table 10 (i.e., 8ALC, 8BLC, and 8CLC).
- TestAmerica analyzed the LC samples for the first tri-annual event for the parameters as listed in Table 8 of the WQMP and for the parameters listed in Table 10 of the WQMP for the second and third tri-annual events except for BOD, which was analyzed by Katahdin during all three monitoring events.

TestAmerica analyzed the TANK sample for parameters required by the Anson-Madison Sanitary District (AMSD) Industrial Wastewater Discharge Permit and by the Sappi Fine Paper North America (Sappi) Maine Pollutant Discharge Elimination System Permit and Waste Discharge Licenses. BOD and total E. Coli bacteria (TANK sample only) were analyzed by Katahdin due to the short hold times. Both AMSD and Sappi permits require the TANK sample to be analyzed for mercury using the low-detection Method 1631B, which has a detection limit of 5.0 nanograms per liter (ng/l).

2.4.2 Leak Detection Monitoring

Katahdin completed leachate detection (LD) system monitoring in 2019 as follows:

- June 11 and 12, 2019 - Katahdin sampled the LD monitoring locations listed in Table 9 of the WQMP except for sampling locations 4ABLD and 5ABLD. These locations were dry at the time of the sampling event and therefore samples were not collected.

TestAmerica analyzed the LD samples for the annual event parameters listed in Table 9 of the WQMP except for BOD, which was analyzed by Katahdin. LC and LD flow rates and time-series plots for January 1 through December 31, 2019 are provided in Appendix C of this report.

2.5 Wick Drain Monitoring

Katahdin sampled wick drain monitoring locations 8AWD, 8BCWD, and 9WD on June 17, 2019. TestAmerica analyzed the wick drain samples for the parameters listed in Table 12 of the WQMP. On August 30 and November 20, 2019 Katahdin sampled wick drain monitoring location 8BCWD. TestAmerica analyzed this wick drain sample for the parameters listed in Table 13 of the WQMP.

2.6 Quality Assurance/Quality Control Samples

Katahdin collected field duplicate samples at five monitoring wells and one surface water location during each sample event. Golder calculated relative percent difference (RPD) values for these duplicates. The RPD values are discussed in Section 4.1.2 of this report.

Katahdin did not collect equipment blanks because all wells are sampled using dedicated sampling equipment. TestAmerica provided trip blanks and analyzed them for VOCs. The results are discussed in Section 4.2.3 of this report.

3.0 SAMPLE COLLECTION PROTOCOLS

Katahdin collected groundwater samples from the Crossroads Landfill (Site) monitoring wells and the Totman Well using dedicated peristaltic pumps or bladder pumps (Well Wizards®) following low-flow purge, unfiltered sampling methods in accordance with procedures outlined in Section 2.0 of the WQMP. The “New Office Well” and “Garage Well” are equipped with submersible pumps and were sampled from taps located inside the respective buildings. In accordance with the Section 2.0 of the WQMP, these two wells were purged for a minimum of five minutes prior to sample collection.

Golder reviewed the field information forms (Appendix A) and groundwater sample logs for each well to assess whether required stabilization criteria and drawdown requirements are met.

Katahdin collected surface water samples, LC/LD samples, and wick drain samples in accordance with Sections 3.0, 4.0, and 5.0 of the WQMP, respectively. As described in the WQMP, the LC/LD samples were composited for all inactive phases of the landfill. Phase 8 was active during the monitoring period (See Section 2.4.1).

4.0 QUALITY ASSURANCE/QUALITY CONTROL

An integral component of the sampling program is the implementation of a quality assurance/quality control (QA/QC) program, including both field and office elements. Field QA/QC activities are conducted to verify that sample collection, handling and storage methods are adequate to ensure sample integrity. As part of the QA/QC program, Golder completed data validation according to the MEDEP Basic Data Review Checklist. Laboratory reports are included in Appendix B. Laboratory reports including related QA/QC information were previously provided to MEDEP electronically within 30 days of receipt from the laboratory as required by Chapter 405 Section 2(i).

4.1 Field QA/QC Activities

The field activities conducted as part of the QA/QC program include completion of annual inspection of monitoring well and surface water sampling locations and collection of appropriate field QA/QC samples.

4.1.1 Monitoring Well and Surface Water Sampling Location Inspections

Katahdin evaluates the integrity of each monitoring well and surface water sampling location in the water quality monitoring program on an annual basis. The evaluation is based on a visual inspection of each sampling location. Appendices D and E include monitoring well and surface water sampling location inspection forms, respectively. Key elements of the monitoring well inspection include:

- Visual inspection of the well for damage
- Visual inspection of the well for potential surface seal leaks and ponded water
- Evaluation of well security (i.e., presence/condition of locks, caps, signs of vandalism, etc.)

As indicated on the monitoring well inspection forms in Appendix D, all wells inspected by Katahdin were observed to be in satisfactory condition, except for the following:

- The protective surface casings at wells 1008ER2, 620A, and W12-4E move slightly side to side when pressure is applied.
- Mounded dirt obscures the W9-1E well label and needs to be cleared.
- The inside PVC casing at well 107BR can be moved side to side when pressure is applied. Fill material was not observed inside the metal casing of 107BR.
- The surface seals at wells 618AR, 618CR, 624B, 628A, and the Totman well are not sloped to prevent flooding in the immediate vicinity of the surface seal.
- The surface seal at wells 1008ER2 and W11-3E are eroded around and under the base.

- The outside well casing is rusted and standing water was observed inside the metal well casing at 310D and the PVC cap needs to be replaced. A hole was observed near the bottom of the casing.
- The locking cap is rusted at the Totman well and monitoring wells 104C/D, 310AW, and 310C. The well cap on well W12-5E is loose and rusty.
- The steel casing at Well 1041B is angled significantly, causing a bend in the PVC casing. The static water level could not be measured. The well is located on a steep embankment below an access road. Monitoring results to date do not indicate damage to the well integrity. This monitoring location will continue to be monitored and if deemed necessary corrective measures will be considered.

WMDSM re-labeled the monitoring wells, secured loose well caps, and replaced locks as needed at the locations indicated above. Katahdin will continue to visually inspect all monitoring locations prior to sampling and complete corrective actions as necessary.

Key elements of the surface water sampling location inspection include visual inspection for evidence of erosion and/or flow obstruction, and evaluation of watercolor and sediment load. As indicated on the inspection forms included in Appendix E, the surface water sampling locations inspected by Katahdin were observed to be in satisfactory condition, except the following:

- The stake was found out of the water at SW-9, the stake was replaced prior to sampling.
- There is evidence of erosion in the stream bed at SW-A and no real channel exists at low water levels, the erosion will be monitored and if it worsens corrective measures will be considered. The location was not sufficiently labelled but was reflagged during the sample event.
- Flow was somewhat obstructed by sticks at sample location SW-B and SW-102.

4.1.2 Field Duplicate

Duplicate sampling and analysis provide statistical information about sample variability. Katahdin collected four field duplicate samples DUP-GW-01, DUP-GW-02, DUP-GW-03, and DUP-GW-04 at groundwater sampling locations during each monitoring event. Katahdin also collected a field duplicate sample DUP-SW-01 at a surface water location during each monitoring event. TestAmerica analyzed the samples for identical analytical parameters and Golder calculated the RPD value for each parameter as follows:

$$RPD = 100\,x\,\frac{(C_1 - C_2)}{\left(\frac{C_1 + C_2}{2}\right)}$$

where: C_1 = primary sample concentration

C_2 = field duplicate sample concentration

Calculated RPD values are presented in Appendix F. As required by the Solid Waste Regulations, Golder identified the following RPD values greater than 10%, where detected concentrations for both the primary sample and the duplicate sample are both greater than five times the reporting limits for that analyte:

- Monitoring well 620A (May 2019): chloride (24%) and total dissolved solids (TDS) (75%)

- Monitoring well 1008BR2 (May 2019): TDS (57%)
- Monitoring well 104D (August 2019): TDS (10.5%)
- Monitoring well 629B (August 2019): calcium (24%), magnesium (23%), potassium (22%), sodium (24%), and alkalinity (31%)
- Monitoring well 617C (August 2019): calcium (25%), iron (71%), magnesium (130%), sodium (32%), and TDS (13%)
- Monitoring well 310D (August 2019): TDS (46%)
- Monitoring well 106WR (November 2019): iron (29%) and TDS (57.1%)
- Monitoring well W12-1B (November 2019): TDS (23.5%)
- Monitoring well 617C (November 2019): alkalinity (20.7%), chloride (14%), and TDS (15.4%)
- Surface water location SW-204 (August 2019): calcium (10.5%)
- Surface water location SW-102 (November 2019): iron (10.5%) and TDS (36%)

The calculated RPD for all remaining parameters where the concentration reported was greater than five times the reporting limits for that analyte were below 10%.

4.2 Data Validation

QA/QC activities required by the WQMP include the verification of chain-of-custody protocols, sample holding times, and review of other laboratory QA/QC criteria as indicated in the laboratory report narratives. Golder completed data validation according to the MEDEP Basic Data Review Checklist.

4.2.1 Data Completeness and Chain-of-Custody Forms

Laboratory reports received from TestAmerica were complete and met project specifications. Golder also reviewed the chain-of-custody forms and found the forms complete and did not identify lapses in custody.

4.2.2 Preservation and Technical Holding Times

Consistent with current EPA protocols that specify a temperature range of 4°C ±2°C, TestAmerica received each of the coolers at 6°C or cooler. However, TestAmerica identified the following samples as being run outside of hold time for nitrate in May/June 2019 due to laboratory analyst oversight: 8BCWD, 8AWD, and 9WD. The hold time for nitrate is 48 hours and the laboratory ran these samples approximately four days after sample collection. Following the MEDEP Basic Data Review Checklist, the associated sample results were flagged as estimated (UJ/J).

TestAmerica also identified the following samples as being run outside of hold time for TDS in August 2019 due to laboratory oversight: 104C, 104D, 630B, and DUP-GW-01. The hold time for TDS is seven days and samples were analyzed up to six weeks after sample collection. However, results are consistent with historical results. Using professional judgement, the results were qualified as estimated (J). TestAmerica identified the TANK sample as being run outside of hold time for total residual chlorine in November 2019. Total residual chlorine is an analysis generally performed in the field with a hold time of 15 minutes, which was analyzed 11 days after sample collection. The result was qualified as estimated (UJ).

4.2.3 Blanks

The appropriate laboratory blanks were run at the frequency specified by the methods. Katahdin included one VOC trip blank in each shipping cooler containing a VOC sample. Katahdin did not collect equipment blanks because all wells are sampled using dedicated sampling equipment.

4.2.3.1 Method Blanks

TestAmerica detected chloride, TDS, iron, sodium, and potassium at concentrations above the reporting limit in certain method blanks. TestAmerica flagged the associated sample results greater than the blank detections with a “BL”. Golder agrees with TestAmerica’s approach to flagging sample results and did not apply any additional sample flags.

4.2.3.2 Trip Blanks

Katahdin included one VOC trip blank in each shipping cooler containing a VOC sample. Trip blank detection reports are provided in Appendix G. TestAmerica detected methylene chloride in a trip blank in August 2019 associated with the TANK sample, however, methylene chloride was not detected in the TANK sample, no qualification is required. All other trip blanks were non-detect for all sample parameters.

4.2.4 Surrogates

TestAmerica correctly analyzed surrogates when required by the method. Samples 8ALC, 7LC, and 123ABLC (sampled in May/June 2019) were diluted due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. Additionally, the laboratory’s standard operating procedure (SOP) allows for one acid and one base surrogate to be outside of acceptance criteria without performing re-extraction and/or re-analysis. The following samples contained an allowable number of surrogate compounds with recovery outside of the acceptance criteria: 8BLC, 8CLC, 11ABCLD, 12LD, TANK, and 10ABLD (sampled in May 2019). All other surrogates were recovered within acceptable ranges.

4.2.5 Laboratory Control Samples

Some laboratory control samples and/or laboratory control sample duplicates (LCS/LCSD) were recovered above the control limits for tetrachloroethene, total organic carbon, chloride, iron, chromium, and zinc. The associated sample results were non-detect; therefore, no qualification is required. An LCS for chloromethane was recovered below the QC criteria. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable.

A reporting limit standard was analyzed, and the target analyte was detected. Associated sample results were non-detect and were qualified as estimated (UJ). The affected samples are the May/June 2019 samples collected from 620A, DUP-GW-01, and 620C. Due to the coelution of ethyl acetate with 2-butanone in the full spike solutions, these analytes exceeded QC criteria in the LCS and/or LCSD samples. Associated sample results were non-detect; no qualification is required. The LCS recovery for chloroethane was above control limits for samples 8BLC and 8CLC sampled in August 2019. The associated results were non-detect; no qualification is required.

4.2.6 Matrix Spike Samples

Some ammonia, alkalinity, and sulfate matrix spike samples and/or matrix spike duplicates (MS and/or MSD) were recovered below the acceptable range. Some ammonia, chemical oxygen demand, and sulfate matrix spike and/or matrix spike duplicates were recovered above the acceptable range. Associated results were qualified as

estimated (J/UJ). The RPD for the MS/MSD associated with sulfate in SW-101 in August 2019 and in 620A and SW-101 in November 2019 is above QC criteria.

4.2.7 Duplicates

As described in Section 4.1.2, the field duplicate RPD values for TDS for 620A/DUP-GW-01 and 1008BR2/DUP-GW-03 in May 2019, for sulfate, chloride, and total alkalinity in 629B/DUP-GW-02 in August 2019, for iron, manganese, and sodium in 617C/DUP-GW-03 in August 2019, for TDS in 310D/DUP-GW-04 in August 2019, and for TDS in 106WR/DUP-GW-01, W11-1B/DUP-GW-04, and SW-102/DUP-SW-01 in November 2019, are above 30%. These results were qualified as estimated “J”. All other field duplicate RPDs are below 30% or meet alternative QC criteria. All lab duplicate RPDs were within control limits.

4.2.8 Data Usability

All data were determined to be usable with the qualifications described above and Golder considers the data quality for samples collected in 2019 to be sufficient for the intended use.

5.0 EVALUATION OF GROUNDWATER ANALYTICAL RESULTS

The WQMP requires several data analyses to evaluate groundwater conditions at the Site. These evaluations include:

- tabulation of historical data
- tabulation of the ratio of TDS to specific conductance (SC) and identification of ratios outside of the range of 0.55 to 0.75
- identification of analytical results outside of historical ranges for sampling locations with greater than five analytical results
- tabulation and comparison of turbidity and total suspended solids (TSS) results
- calculation of ionic balances for each sample
- tabulation of results exceeding Maximum Contaminant Levels (MCLs) and Maine Maximum Exposure Guidelines (MEGs)
- tabulation of trace metal detections
- tabulation of VOC detections
- development of time-series plots
- an annual statistical data analysis

The following sections present the required information.

5.1 Historical Data

Appendix H presents historical data for the groundwater monitoring points in the water quality monitoring program.

5.2 Total Dissolved Solids/Specific Conductivity Correlation

MEDEP Solid Waste Regulations (Chapter 405, Section 2) require several QA/QC checks on water quality data. One of these checks entails calculating the ratio of TDS to SC and identifying sample ratios outside the range of 0.55 to 0.75. The TDS to SC ratios for the samples collected are provided in Appendix I.

A review of the May/June 2019 TDS/SC ratios indicates that 34 of the 47 calculated ratios are below the 0.55 to 0.75 range. Seven of the wells with values below the range are upgradient wells (617A, 617C, W11-1B, W11-1 ER, W11-2E, W12-1B, and W12-2E), including the well with the lowest ratio (0.11 at W12-2E). Four wells have TDS/SC ratios above 0.75: 1008BR2 (1.1), 310C (0.80), 628A (0.78), and 630E (0.76). Well 310C is an upgradient well.

A review of the August 2019 TDS/SC ratios indicates that 29 of the 46 calculated ratios are below the 0.55 to 0.75 range, with the lowest ratio of 0.36 at W12-4B. Six of the wells with a value below the range are upgradient wells (310D, 617A, W11-1B, W11-1ER, W11-2E, and W12-1B). Four wells have a TDS/SC ratio above 0.75: 1041B (0.77), 310AW (0.79), 626B (2), and 628A (1.3). Well 310AW is an upgradient well.

A review of the November 2019 TDS/SC ratios indicates that 19 of the 41 calculated ratios are below the 0.55 to 0.75 range. Two of the wells with values below the range are upgradient wells (310C and 617C). Six wells have a TDS/SC ratio above 0.75: 617A (0.92), 620A (1.5), W11-5B (0.89), W11-6E (0.97), W12-2E (1.2) and W12-4B (0.95). Wells 617A and W12-2E are upgradient wells.

In response to a technical review memoranda prepared by Maine DEP in 2009, Golder provided additional discussion regarding the range of TDS/SC ratios measured for groundwater at the Crossroads facility in a letter to WMDSM dated December 23, 2009. In the response, Golder noted that analytical results with TDS/SC ratios outside the range of 0.55 to 0.75 have been common throughout the history of water quality monitoring at the Crossroads facility. The overall percentage of results outside this range has not changed appreciably with time. One factor that may affect calculated TDS/SC ratios is that the ratio is derived by utilizing laboratory analyzed TDS concentrations with field measured SC values. Field measurements are inherently less precise than laboratory analyses, which may contribute to variability in the calculated TDS/SC ratios.

The requirement for identification of TDS/SC ratios outside of the 0.55 to 0.75 range is from the Chapter 405 regulations. However, neither the reason for this requirement nor the basis for the TDS/SC ratio range is provided. Golder assumes that the TDS/SC range used in the Chapter 405 regulations is from a United States Geological Survey (USGS) report entitled Study and Interpretation of the Chemical Characteristic of Natural Water (USGS, 1992) which states that the range of TDS/SC ratios for “natural water” is “mostly between 0.55 and 0.75”. In the context of the USGS report, “natural water” is intended to include river, stream, lake and groundwater. Golder was unable to identify the data set used to establish the TDS/SC ratio range, other than it dates back to 1947. Therefore, Golder was unable to evaluate the statistical validity of this range across the very broad spectrum of "natural water".

To evaluate the potential Site-specific range of "background" TDS/SC ratios, Golder identified a number of Site wells where there has been no indication of impacts from landfilling and found that the expected range of TDS/SC ratios to be observed in Site groundwater is approximately 0.30 to 1.0. As such, it may be more appropriate to use this range to identify outliers. Even then, it is not clear to Golder what values outside of any range is intended to identify, as it is Golder's opinion that the TDS/SC ratios calculated for the Crossroads facility are not a predictor of groundwater quality or laboratory/field measurement precision.

5.3 Identification of Analytical Results Outside of Historical Ranges

Appendix J includes a tabulation of maximum and minimum values for parameters that have been analyzed more than five times at each sampling location. When both total and dissolved metals analysis were completed, Golder only included dissolved metals in the evaluation. Golder identified forty-five new minimum and fifty-two new maximum values for samples collected from both upgradient and downgradient wells during the three 2019 sampling events. The following summarizes key observations relative to the new maximum and minimum values:

- Twenty-four of the new minimum values are for oxidation-reduction potential. Golder reviewed the calibration and sample forms associated with these new minimums. Although the calibration logs did not indicate any problems, most of the wells with new minimums were sampled with the same field meter. Golder suspects these new minimums are due to equipment malfunction. Katahdin is evaluating the field meter and if required, will replace it prior to the next sample event.
- Twenty new minimum values are non-field measured parameters and include new minimum values for alkalinity, barium, calcium, chloride, nitrate, manganese, magnesium, potassium, sodium, and total dissolved solids. Four of these twenty new minimum values occurred at upgradient wells.
- Thirty-seven of the fifty-two new maximum values are non-field measured parameters, including new maximum values for alkalinity, aluminum, arsenic, barium, calcium, chloride, iron, nitrate, magnesium, sulfate, total suspended solids, and total dissolved solids. Six of these new maximums occurred at upgradient wells.

A qualitative review of the new maximum and minimum concentrations along with other data evaluations described herein does not indicate a significant change in groundwater quality between the 2019 sampling events and previous sampling events.

5.4 Turbidity/Total Suspended Solids Correlation

The WQMP requires an evaluation of turbidity and TSS values. Values for turbidity and TSS have been tabulated and are provided in Table 2. The regulations require that samples with a TSS value above 50 milligrams per liter (mg/L) or turbidity value above 50 NTUs be identified. There were no samples collected in 2019 with TSS values above 50 mg/L or turbidity values above 50 NTUs.

In a memorandum dated May 1, 2012, Maine DEP suggested that filtered (dissolved) and unfiltered (total) samples be collected at well locations with field turbidity values above 15 NTUs. The turbidity at 620A in November 2019 was above 15 NTUs, however, due to field staff oversight no filtered metal sample was collected. All other field turbidity values were below 15 NTUs prior to sample collection.

5.5 Major Ion Electrical Balance

A cation/anion balance report for each groundwater monitoring location is provided in Appendix I. Generally, anion and cation sums when expressed as milliequivalents per liter should balance for potable waters because they are assumed to be electrically neutral. TestAmerica calculated the balances to be within 10% for all but three of the upgradient groundwater locations sampled in 2019. Upgradient well 310C had an ion balance of 11% in May 2019, upgradient well W12-1E had an ion balance of 12% in November 2019, and upgradient well W12-2E had an ion balances of 65%, 60%, and 56% in May, August, and November 2019, respectively. The high ion balance for the sample collected at W12-2E is due to several non-detect anion results.

The ion balances for downgradient wells 618CR, 620A, and 629B were outside 10% in August 2019 (34%, -31%, and -28%, respectively). The ion balances for downgradient wells 620A, 624B, 628A, and W11-6E were outside 10% in November 2019 (17%, -27%, -20%, and 26%, respectively).

5.6 Comparison to MCLs, SMCLs, and MEGs

The WQMP requires a comparison of groundwater analytical results to Maine's MEGs and federal drinking water standards referred to as MCLs. Secondary MCLs (SMCLs) are secondary federal drinking water guidelines based upon possible cosmetic or aesthetic effects of drinking water. Table 3 lists detections above an MCL, SMCL and/or MEG in groundwater samples collected during the 2019 sampling events.

TestAmerica detected aluminum at concentrations above the SMCL (0.05 mg/L) in groundwater samples from one well in May 2019, two wells in August 2019, and three wells in November 2019, but it was not detected above the MEG (7.0 mg/L) in any sample. Four of the wells with detections of aluminum above the SMCL (617A, 617C, W11-1ER, and W12-1E) are upgradient monitoring wells. There is no MCL for aluminum.

TestAmerica detected arsenic at concentrations above the MEG (0.01 mg/L) and the MCL (0.01 mg/L) in groundwater samples from twelve wells in May/June 2019, thirteen wells in August 2019, and thirteen wells in November 2019. Four of the wells with arsenic detections above the MEG/MCL (617A, 617C, W11-1B, and W12-1B) are upgradient monitoring wells.

TestAmerica detected iron at concentrations above the SMCL (0.3 mg/L) in groundwater samples from four wells in May 2019, four wells in August 2019, and six wells in November 2019. Iron was not detected above the MEG (5.0 mg/L) in any sample. Four of these wells, 617A, 617C, W11-1ER, and W12-1E are upgradient monitoring wells. All of the downgradient wells are downgradient of Phases 1-10 and are screened in the Till, except for well 620A which is screened in the phreatic zone. There is no MCL for iron.

TestAmerica detected manganese at concentrations above the SMCL (0.05 mg/L) in May/June 2019 in groundwater samples from nine wells (two of the wells are upgradient W11-1ER and W12-1B) and above the MEG (0.3 mg/L) in six of those samples. The wells with detections above the MEG include upgradient well W11-1ER and wells downgradient of Phases 1-10 screened in the phreatic or till zones. TestAmerica detected manganese above the SMCL in twelve wells in August 2019 including the same nine wells as in May/June (with the exception of W12-1B) and one additional downgradient well screened in the phreatic zone and two additional downgradient wells screened in the till and in upgradient well 617C. TestAmerica detected manganese above the MEG in five of those wells. TestAmerica detected manganese above the SMCL in twelve wells in November 2019 including the same nine wells as in May/June as well as two additional upgradient wells 617A and W12-1E and one additional downgradient well screened in the phreatic zone. TestAmerica detected manganese above the MEG in five of those wells. There is no MCL for manganese.

TestAmerica detected sodium at concentrations above the MEG (20 mg/L) in groundwater samples from five wells during all three sample events. In addition to these five wells, TestAmerica detected sodium above the MEG in W9-1E in November 2019 and 618AR in August and December 2019. Two of these wells (617A and 617C) are upgradient monitoring wells. All of the downgradient wells are downgradient of Phase 1-10 and are screened in bedrock except monitoring wells W9-1E and 618AR which are screened in the phreatic zone. There is no MCL or SMCL for sodium.

TestAmerica detected uranium in the TRANS well above the MEG (30 mg/L).

TestAmerica did not detect any other parameter at concentrations above the laboratory reporting limits that are above the MCL, SMCL, or MEG standards in groundwater samples collected during the 2019 sampling events. The reporting limit for vinyl chloride is above the MEG standard of 0.2 microgram per liter (ug/L). Test America cannot reduce the reporting limit below the MEG standard for vinyl chloride (0.2 ug/L), because the method detection limit is 0.9 ug/L.

5.7 Trace Metal Detections

Table 4 summarizes the detections of trace metals in groundwater above analytical detection limits. TestAmerica detected trace metals arsenic, barium, and chromium during 2019. None of the trace metals were detected at concentrations above the MCL or MEG standards except arsenic. As discussed in Section 5.1.6, arsenic was detected at concentrations above the MCL and MEG in both upgradient and downgradient groundwater samples.

5.8 Volatile Organic Compound Detections

TestAmerica did not detect any VOCs at concentrations above the laboratory reporting limits in groundwater samples collected for VOC analysis in 2019.

5.9 Statistical Analysis

Eagon completed a statistical analysis of the 2019 groundwater quality data in accordance with the “Statistical Analysis Program for Groundwater Quality Monitoring Crossroads Landfill” dated June 9, 2017 and approved by the MEDEP via email communication on June 23, 2017. Eagon’s report on Statistical Analysis of 2019 Groundwater Quality Results (2019 Statistical Analysis Report) is attached as Appendix M. The following sections discuss the results of the statistical analysis.

5.9.1 Volatile Organic Compound Results

A result at or above the laboratory reporting limit is consider a statistically significant increase. No VOCs were detected above the laboratory reporting limit in 2019.

5.9.2 Intrawell Mann-Kendall Trend Analysis

Eagon completed an intrawell trend analysis using the Mann-Kendall trend test method to identify statistically significant upward or downward trends for all wells and parameters with at least 25% detected data. The analysis was performed at the 95% confidence level with alpha = 0.05 split between each tail resulting in an actual 97.5% overall confidence level.

Eagon based the trend analysis on either the most recent 10 results or the most recent five-year moving window, whichever produced the largest number of results. Therefore, an approximate 10-year moving window was used for parameters monitored annually until 2018 (i.e, arsenic and barium) and a 5-year moving window was used for parameters monitored tri-annually. As requested by DEP, trend graphs with fewer than 10 detected results were redacted from the output. Redacted trend analyses are indicated by a line through the trend plot (e.g., see Graph 7 in Attachment A[1] of the 2019 Statistical Analysis Report).

Results of the Mann-Kendell trend analysis are summarized in Table 9. Trend plots for all wells/parameters with an identified statistically significant trend (either up or down) are presented in Attachment A of the 2019 Statistical

[1] The trend charts for barium are presented after the trend charts for the parameters monitoring tri-annually in Attachment A of the 2019 Statistical Annual Report.

Analysis Report. The following sections discuss the identified trends for specific areas of the Site by hydrostratigraphic unit (i.e., phreatic unit, till unit, bedrock unit).

5.9.2.1 Statistically Significant Trends for Phase 1 through 10 Upgradient Wells

Phreatic Wells

Eagon identified statistically significant increasing trends for chloride, nitrate, and specific conductance and a statistically significant decreasing trend for potassium in upgradient phreatic well 310AW. Review of the long-term chloride trend plots for 310AW indicates that chloride concentrations have fluctuated over the past 20 years. However, the overall magnitude of fluctuation is relatively low (i.e., all results are less than 10 mg/L). The identified statistically significant increasing trend over the last 5 years is consistent with longer-term fluctuations in chloride concentrations. The observed statistically increasing trend in specific conductance within the last 5 years is also consistent with historical fluctuations. The identified statistically significant increasing trend for nitrate is a reversal of a more historical decreasing trend. Concentrations of nitrate generally decreased until approximately five years ago. Overall nitrate concentrations are low (i.e., less than 0.40 mg/L) at this well and the most recent results are well below the historical maximum. The observed statistically decreasing trend in potassium over the last 5 years is consistent with a long-term trend in decreasing potassium concentrations. Overall concentrations of potassium are low (i.e., results are less than 2.5 mg/L) at this well and the most recent results are well below the historical maximum. Eagon also identified a statistically significant decreasing trend of manganese in the upgradient phreatic well 617A over the last 5 years. The observed statistically decreasing trend in manganese within the last 5 years is consistent with historical fluctuations. Overall concentrations of manganese are low (i.e., less than 0.5 mg/L) at this well and the most recent results are well below the historical maximum.

Till Well

Eagon identified a statistically significant increasing trend in calcium, chloride, specific conductance, nitrate and TDS and no statistically significant decreasing trends in upgradient till well 310C. The observed statistically increasing trend of calcium over the last 5 years is consistent with the 20-year long-term fluctuations in calcium concentrations. Review of the long-term chloride and nitrate trend plots for 310C suggests that the recent increase in chloride and nitrate concentrations is are reversals of a downward trends starting from historical highs in 2005 and 1994, respectively and lasted until approximately 2010, from which point chloride and nitrate concentrations have slowly increased while remaining below their previously observed high values. Review of the long-term trend plots for TDS and specific conductance indicates that concentrations of these parameters has been variable over time and that the recent statistically significant increasing trends are consistent with the historical range of TDS and specific conductance observed at this well.

Bedrock Wells

Eagon identified the following statistically significant trends in bedrock wells upgradient of Phases 1 through 10:

- Decreasing trends:
  - 617C: alkalinity, calcium, magnesium, potassium, sodium, aluminum, specific conductance, pH, TDS, and total organic carbon (TOC)
- Increasing trends:
  - 617C: arsenic

- 310D: dissolved oxygen, TDS, and specific conductance

Eagon identified both statistically significant increasing and decreasing trends for well 617C and statistically significant increasing trends for well 310D. The identified statistically significant decreasing trends for well 617C are typically reversals of more historical increasing trends. Concentrations of all of these parameter results have been variable but overall have been decreasing since reaching a maximum about 18 years ago. The identified increasing trend in arsenic for well 617C is of very low magnitude, and recent arsenic concentrations are well below the historical maximum. The identified statistically increasing trends for well 310D are parameters that have been variable over the last 20 years but have changed by very low magnitudes in the last 5 years.

In summary, the trend analysis for wells upgradient of Phases 1 through 10, which identified both statistically significant upward and downward trends, indicates that there is variability in upgradient groundwater quality unrelated to landfill development. This variability must be considered when reviewing results for downgradient wells.

5.9.2.2 Statistically Significant Trends for Phase 11 and 12 Upgradient Wells

Phreatic Wells

Eagon identified statistically significant increasing trends for chloride and specific conductance for well W11-2E and barium for well W12-2E. Eagan also identified a statistically significant decreasing trend in calcium and magnesium for well W12-2E. No statistically significant trends were identified in the data sets for W11-1E/W11-1ER or W12-1E.

The recent increasing trend for chloride in W11-2E is consistent with a longer-term trend. However, the magnitude of change over approximately 20 years (approximately 5 mg/L) is limited. The specific conductance results within W11-2E have shown fluctuations in the past 10 years and recent results are within the historical range.

Review of longer-term trends in calcium in well W12-2E, indicates variability over time and while the most recent calcium concentrations are generally lower than historical concentrations, the magnitude of change over 20 years is limited, with all results within 0.80-1.3 mg/L. The identified statistically significant decreasing trend for magnesium in well W12-2E is a reversal of a historical increasing trend. The identified statistically significant increasing trend for barium at well W12-2E is the result of five most-recent sample results. However, the magnitude of the increase is very low (from 0.0075 to 0.0100 mg/L).

Till Wells

Eagon identified statistically significant increasing and decreasing trends for upgradient wells W11-1B (one increasing, three decreasing) and W12-1B (one increasing, one decreasing). The identified decreasing trends for W11-1B (arsenic, magnesium, and sodium) are all low magnitude changes. The identified increasing trend in dissolved oxygen concentrations in W11-1B appears to be a reversal of lower concentrations detected in 2015. Dissolved oxygen concentrations in samples collected from W11-1B in 2019 are consistent with historical concentrations of dissolved oxygen detected at this well.

Eagon identified a statistically significant downward trend for sulfate in W12-1B. Sulfate concentrations have been variable over the history of monitoring at W12-1B, and recent results are consistent with historical ranges but overall show a decreasing trend in the last 5 years. While Eagan identified a statistically significant increasing trend for specific conductance at W12-1B, the 2019 results are consistent with historical ranges.

In summary, the identified trends in groundwater samples collected upgradient of Phases 11 and 12 are generally of low magnitude and are consistent with the overall variability in groundwater quality observed during the history of monitoring within the till. Analytical results from 2019 are consistent with historical ranges. None of the Phase 11 or 12 monitoring wells are screened in bedrock.

5.9.2.3 Statistically Significant Trends for Phase 1 through 10 Downgradient Wells

The results of the trend analysis for wells located downgradient of Phases 1 through 10 are summarized in Table 9 and are consistent with previously-noted historical episodic releases and an overall improvement in groundwater quality at the Crossroads facility.

Phreatic Wells

Eagon identified statistically significant trends in the following phreatic wells located downgradient of Phases 1 through 10:

- Decreasing trends:
  - 1008ER2: sodium
  - 620A: iron
  - 629E: barium and sodium
  - 630E: alkalinity, chloride, sodium, and TOC
  - W9-1E: chloride
- Increasing trends:
  - 1008ER2: potassium
  - 618AR: dissolved oxygen and specific conductance
  - 620A: specific conductance
  - 629E: nitrate
  - 630E: calcium and dissolved oxygen
  - W9-1E: calcium and specific conductance
  - W9-2E: specific conductance

No statistically significant trends were identified in the data set for downgradient well 106WR. In general, the identified decreasing trends are consistent with longer-term trends in phreatic unit water quality. The overall magnitude of concentration changes in most of the identified trends is limited. These identified trends fit into one of the following categories:

- A decreasing trend that is consistent with a longer-term trend that has been apparent for almost the entire history of monitoring, including:
  - 1008ER2: sodium

- 629E: barium
- 630E: chloride

- A decreasing trend that is part of a historical pattern of variable parameter concentration, including:
  - 620A: iron
  - 629E: sodium
  - 630E: alkalinity, sodium, and TOC
  - W9-1E: chloride

The identified increasing trends are consistent with longer-term trends in phreatic unit water quality. The overall magnitude of concentration changes in most of the identified trends is limited. The identified statistically significant increasing trends fit into one of the following categories:

- An increasing trend that is part of a historical pattern of variable parameter concentration, including:
  - 618AR: dissolved oxygen and specific conductance
  - 620A: specific conductance
  - 630E: dissolved oxygen
  - W9-1E: specific conductance
  - W9-2E: specific conductance
- An increasing trend that is the reversal of a previous decreasing trend, including:
  - 1008ER2: potassium
- An increasing trend that is consistent with a longer-term trend that has been apparent for almost the entire history of monitoring, including:
  - 629E: nitrate
  - 630E: calcium
  - W9-1E: calcium

In summary, the identified statistically significant trends in phreatic unit groundwater samples collected downgradient of Phases 1 through 10 are generally of low magnitude and are consistent with the overall variability in groundwater quality observed during the history of monitoring. Analytical results from 2019 are generally consistent with historical ranges and overall groundwater quality was unchanged in 2019.

Till Wells

Eagon identified statistically significant trends in the following till wells located downgradient of Phases 1 through 10:

- Decreasing trends:

- 1008BR2: sodium
- 1041B: alkalinity, chloride, and calcium
- 104C: iron and barium
- 107BR: pH
- 618CR: arsenic, pH, and sodium
- 624B: pH
- 626B: dissolved oxygen and nitrate
- 630B: sodium

- Increasing trends:
  - 1008BR2: nitrate and specific conductance
  - 1040B: sulfate
  - 104C: dissolved oxygen
  - 106CR: iron and sulfate
  - 107BR: alkalinity, calcium, chloride, iron, magnesium, manganese, potassium, sodium, barium, specific conductance and TDS
  - 618CR: barium
  - 620C: specific conductance
  - 624B: alkalinity, calcium, chloride, magnesium, manganese, sulfate, barium, specific conductance, and TDS
  - 629B: dissolved oxygen
  - 630B: barium

No statistically significant trends were identified in the data set for downgradient well 101C. In general, the overall magnitude of concentration change in most of the identified trends is limited. The identified trends fit into one of the following categories:

- A decreasing trend that is a reversal of a historical increase in parameter concentration, including:
  - 104C: iron
  - 618CR: arsenic
- A decreasing trend that is part of a historical pattern of variable parameter concentration, including:
  - 1008BR2: sodium
  - 1041B: alkalinity, calcium, and chloride

- 104C: barium
- 107BR: pH
- 618CR: pH and sodium
- 620C: specific conductance
- 624B: pH
- 626B: dissolved oxygen and nitrate
- 630B: sodium

- An increasing trend of very low overall magnitude/concentration, including:
  - 1040B: sulfate
  - 624B: manganese
  - 630B: barium
- An increasing trend that is part of a historical pattern of variable parameter concentration, which in some cases includes much higher historical concentrations, including:
  - 1008BR2: nitrate, and specific conductance
  - 104C: dissolved oxygen
  - 106CR: iron and sulfate
  - 107BR: sodium and specific conductance
  - 618CR: barium
  - 624B: alkalinity, barium, calcium, chloride, magnesium, sulfate, TDS, and specific conductance
  - 629B: dissolved oxygen
- An increasing trend that is part of a historical pattern of low parameter concentration, with a recent increase, including:
  - 107BR: chloride
- An increasing trend that is a reversal of a historical decrease in parameter concentration, including:
  - 107BR: alkalinity, calcium, iron, magnesium, manganese, potassium, total dissolved solids, specific conductance and barium

In summary, the identified statistically significant trends in till groundwater samples collected downgradient of Phases 1 through 10 are generally of low magnitude and/or are consistent with the overall variability in groundwater quality observed during the history of monitoring. Analytical results from 2019 are generally consistent with historical ranges and overall groundwater quality in the till unit was unchanged in 2019.

Bedrock Wells

Eagon identified statistically significant trends in the following bedrock wells located downgradient of Phases 1 through 10:

- Decreasing trends:
  - 104D: iron, magnesium, and manganese
  - 106DR: chloride, potassium, and sodium
  - 107CR: alkalinity, calcium, magnesium, potassium, sodium, specific conductance, and TDS
  - 627A: pH
- Increasing trends:
  - 104D: dissolved oxygen
  - 106DR: calcium, specific conductance, and TDS
  - 1134B: specific conductance
  - 627A: dissolved oxygen and specific conductance

No statistically significant trends were identified in the data set for 628A. The identified decreasing trends generally fit into one of the following categories:

- A decreasing trend that is a reversal of a historical increase in parameter concentration
  - 106DR: potassium
  - 107CR: alkalinity, calcium, magnesium, potassium, sodium, specific conductance, and TDS
- A decreasing trend of very low overall magnitude/concentration, including:
  - 104D: iron, magnesium, and manganese
  - 106DR: chloride and sodium
- A decreasing trend that is part of a historical pattern of variable parameter concentration, including:
  - 627A: pH

The identified increasing trends generally fit into one of the following category:

- An increasing trend that is part of a historical pattern of variable parameter concentration, which in some cases includes much higher historical concentrations, including:
  - 104D: dissolved oxygen
  - 106DR: calcium, TDS, and specific conductance
  - 1134B: specific conductance
  - 627A: dissolved oxygen and specific conductance

In summary, the identified statistically significant trends in bedrock groundwater samples collected downgradient of Phases 1 through 10 are generally of low magnitude and/or are consistent with the overall variability in groundwater quality observed during the history of monitoring. Analytical results from 2019 are generally consistent with historical ranges and overall groundwater quality in the bedrock was unchanged in 2019.

5.9.2.4 Statistically Significant Trends for Phase 11 and 12 Downgradient Well

The trend analysis for wells located downgradient of Phases 11 and 12 identified both statistically significantly decreasing trends and increasing trends as summarized in Table 9. For the reasons discussed below, the identified increasing trends are not attributed to a release from the landfill cells.

Phreatic Wells

Eagon identified statistically significant trends in the following phreatic wells located downgradient of Phases 11 and 12:

- Decreasing trends:
  - W11-5E: chloride
  - W11-6E: alkalinity
  - W12-3E: barium
  - W12-4E: barium, chloride, and magnesium
  - W12-5E: barium
- Increasing trends:
  - W11-3E: barium, alkalinity, and specific conductance
  - W11-4E: alkalinity, calcium, dissolved oxygen, magnesium, potassium, specific conductivity, and TDS
  - W11-5E: specific conductivity
  - W11-6E: nitrate
  - W12-3E: specific conductivity
  - W12-4E: sodium

The statistically significant decreasing trends identified by Eagon are a reversal of a historical increase in parameter concentration except for the decreasing barium trends identified in W12-4E and W12-5E which are a continuation of a decreasing trend of low overall magnitude/concentration throughout the duration of monitoring. The identified increasing trends fit into one of the following categories.

- An increasing trend of very low overall magnitude/concentration and sometimes a reversal of a previous decreasing trend, including:
  - W11-3E: alkalinity, barium, and specific conductivity
  - W11-4E: potassium, dissolved oxygen, and TDS

  - W11-6E: nitrate
  - W12-3E: specific conductance
  - W12-4E: sodium
- An increasing trend that is consistent with a long-term trend dating back to the beginning of the monitoring period (i.e., 1998 for Phase 11), including:
  - W11-4E: alkalinity, calcium, specific conductivity, and magnesium
  - W11-5E: specific conductivity

Additional discussion of groundwater quality in the phreatic unit downgradient of Phases 11 and 12 is presented in Section 5.10.5.

Till Wells

Eagon identified statistically significant trends in the following till wells located downgradient of Phases 11 and 12:

- Decreasing trends:
  - W12-4B: alkalinity, manganese, potassium, and sulfate
- Increasing trends:
  - W11-5B: specific conductance

All identified trends in the till wells downgradient of Phases 11 and 12 are of a very low magnitude and/or are within the variability patterns of fluctuations within the given well. Analytical results from 2019 are generally consistent with historical ranges and overall groundwater quality in the till unit was unchanged in 2019.

5.9.3 Interwell Prediction Limits

In accordance with the Statistical Analysis Program (Eagon, 2017), Eagon used interwell (upgradient compared to downgradient) prediction limits to compare upgradient and downgradient water quality for landfill Phases 11 and 12. As part of this analysis, Eagon identified outliers using the Dixon's outlier test. Results of the interwell prediction analysis are included in Attachment B of the 2019 Statistical Analysis Report (Appendix M).

A five-year moving window was used to determine the current upgradient groundwater quality and to establish prediction limits. The highest non-detect reporting limit was substituted for all non-detect results in the background period. Eagon compared the most recent downgradient parameter concentrations to the associated prediction limit. The results of the interwell prediction limits are summarized in Table 4 of the 2019 Statistical Analysis Report and trend graphs are provided in Attachment B of the 2019 Statistical Analysis Report. Eagon identified the following results to be above the prediction limit in downgradient phreatic wells:

- W11-3E: nitrate, calcium, and dissolved oxygen
- W11-4E: alkalinity, calcium, magnesium, potassium, specific conductance, and sulfate
- W11-5E: arsenic
- W11-6E: calcium

- W12-3E: alkalinity, nitrate, specific conductance, and calcium
- W12-4E: nitrate
- W12-5E: alkalinity, calcium, nitrate, specific conductance, and potassium

No parameters were identified at concentrations above prediction limits in downgradient till wells.

Golder's review of the interwell prediction limit evaluation indicates the following:

- W11-3E: Most of the calcium results in the past 5 years were identified as being above the prediction limit, however, as discussed in Section 5.9.2.4, a statistically significant increasing trend for calcium was not identified in this well. Only the most recent (November 2019) dissolved oxygen result and the three nitrate results collected in 2019 are above their respective prediction limits. Statistically significant increasing trends were not identified for these parameters.
- W11-4E: All or most of the alkalinity, calcium, magnesium, specific conductance, potassium, and sulfate results in the past 5 years are identified as being above the prediction limit and all (except sulfate) were identified as having statistically significant increasing trends (see Section 5.10.2.4). However, increases have been gradual and minimal over the past 5 years. The most recent specific conductance, magnesium, and calcium results represent historical maximums.
- W11-5E: The most recent arsenic results in the past 5 years are identified as being above the prediction limit. However, a statistically significant trend has not been identified for arsenic and the most recent results are below historical maximums.
- W11-6E: Most of the calcium results in the past 5 years have been above the prediction limit, however, a statistically significant increasing trend was not identified and the most recent results are below the historical maximums.
- W12-3E: All or most of the alkalinity, calcium, and nitrate results in the past 5 years have been above the prediction limit, however, none of these parameters were identified as having statistically significant increasing trends and recent detections of both parameters are below historical maximums. The most recent specific conductance results are above the prediction limit, and a statistically significant increasing trend was identified, however, the most recent results are below the historical maximum.
- W12-4E: All of the nitrate results in the past 5 years have been above the prediction limit, however, a statistically significant increasing trend has not been identified for nitrate and recent detections of nitrate are below historical maximums.
- W12-5E: All or most of the calcium, potassium, and nitrate results in the past 5 years have been above the prediction limit, however, neither of these parameters were identified as having a statistically significant increasing trend. The most recent alkalinity and specific conductance results from the past year are above the prediction limit.

Additional discussion of Phase 11 and Phase 12 groundwater quality is presented in Section 5.9.5.

5.9.4 ORP Linear Regression Analysis

Eagon performed a linear regression analysis with 99% confidence intervals to evaluate ORP results. This analysis is included in Attachment C of the 2019 Statistical Analysis Report. Eagon identified ORP results above and below the 99% confidence intervals in 2019.

Upgradient Wells

Eagon identified an ORP result collected in 2019 from upgradient phreatic wells 310AW and 617A and upgradient bedrock well 310D to be above the 99% confidence intervals. These results do not represent historical maximums.

Eagon identified an ORP result collected in 2019 from upgradient phreatic wells 617A, W11-2E, and W12-2E to be below the 99% confidence interval. Additionally, Eagon identified a recent ORP result from upgradient till well W12-1B to be below the 99% confidence interval.

Downgradient Wells

Eagon identified three ORP results to be above the 99% confidence interval and four ORP results to be below the 99% confidence interval in downgradient phreatic wells. Three of the four ORP results below the 99% confidence interval (629E, 630E, and W11-3E) correspond to historical new minimums.

Eagon identified two ORP results to be above the 99% confidence interval and six ORP results to be below the 99% confidence interval in downgradient till wells. All of the ORP results below the 99% confidence interval correspond to historical new minimums. Eagon also identified two ORP results below the 99% confidence interval in downgradient bedrock wells, both of which correspond with new historical minimums.

As discussed in Section 5.3, Golder believes the low ORP results may be the result of a malfunctioning field meter.

5.9.5 Discussion of Phreatic Groundwater Quality Downgradient of Phase 11 and 12

As described above, Eagon identified the following statistically significant increasing trends in phreatic groundwater downgradient of Phases 11 and 12:

- W11-3E: alkalinity, barium, and specific conductance
- W11-4E: alkalinity, calcium, dissolved oxygen, magnesium, potassium, specific conductivity, and TDS
- W11-5E: specific conductivity
- W11-6E: nitrate
- W12-3E: specific conductivity
- W12-4E: sodium

In addition, Eagon identified the following results to be above the prediction limit in samples from phreatic wells located downgradient of Phases 11 and 12:

- W11-3E: calcium, dissolved oxygen, and nitrate
- W11-4E: alkalinity, calcium, magnesium, potassium, specific conductance, and sulfate

- W11-5E: arsenic
- W11-6E: calcium
- W12-3E: alkalinity, calcium, specific conductance, and nitrate
- W12-4E: nitrate
- W12-5E: alkalinity, calcium, nitrate, specific conductance, and potassium

These findings suggest a change in groundwater quality downgradient of Phases 11 and 12 over time. However, the change in groundwater quality is not attributed to a release of leachate from the landfills for the following reasons:

- Some of the observed water quality changes predate waste placement in the landfill cells (see below).
- The observed changes in water quality generally do not include typical leachate indicator parameters such as chloride and sodium.
- The changes in water quality have occurred gradually over long periods of time and in most cases are of very low magnitude.
- In most cases, the concentration trends have reversed even though no corrective actions have been implemented.

The conclusion that the changes in groundwater quality are not consistent with a release of leachate from the landfill cells is consistent with the fact that the both Phases 11 and 12 are constructed with double-composite liner systems and inter-liner collection systems, making the likelihood of a leachate release to groundwater extremely low.

Instead, the changes in phreatic groundwater quality downgradient of Phase 11 and 12 are attributed to one, or the combination of the following:

- Elimination of local precipitation recharge to the phreatic unit as result of construction of the landfill liner system which results in slight enrichment of natural ions in the phreatic groundwater.
- The flow and mixing of connate water from the underlying gray clay into the phreatic unit (weathered olive-brown clay) as a result of loading (i.e., landfill construction and waste placement). The connate water within the Presumpscot formation (gray clay) is likely dominated by calcium, magnesium and bicarbonate (principle component of alkalinity) due to dissolution of marine minerals or fossils and/or seawater inclusion at the time of deposition.

The groundwater water quality for Phase 11 and Phase 12 was discussed in detail in the 2018 Summary of Groundwater and Other Environmental Data Report (Golder 2019).

5.9.6 Statistical Analysis Summary

Based on a review of the results of the statistical analysis, Golder concludes the following:

- No VOCs were detected at or above the reporting limit during the 2019 annual sampling event.

- Statistically significant trends were identified in wells upgradient of Phases 1 through 10. These trends are consistent with longer-term fluctuations in upgradient groundwater quality. The variability is most pronounced in upgradient bedrock water quality.
- Few statistically significant trends were identified in wells upgradient of Phases 11 and 12.
- A mix of increasing and decreasing statistically significant parameter trends was identified in phreatic and till wells located downgradient of Phases 1 through 10, which are consistent with the previously identified historical episodic releases in the area of Phase 1 through 10.
- Results of the interwell prediction limit evaluation for Phases 11 and 12 are consistent with the results of the trend analysis, indicating a general change in water quality beneath the landfilled areas as a result of the elimination of local precipitation recharge and the mixing of pore water from the gray clay.
- The linear regression analysis for ORP indicates little statistically significant change in ORP values in site groundwater.
- Identified statistically significant parameter trends in phreatic wells located down gradient of Phase 11, and to a lesser extent Phase 12, are interpreted to be the result of the elimination of local precipitation recharge to the phreatic unit and the flow and mixing of connate water from the underlying gray clay into the phreatic unit as a result of increased pore pressures in the gray clay from loading (i.e., landfill construction, waste placement, and final closure construction).

6.0 EVALUATION OF SURFACE WATER ANALYTICAL RESULTS

The approved WQMP requires the following data analyses to evaluate surface water quality conditions at the Site:

- tabulation of historical data
- identification of results outside of historical ranges
- tabulation of statewide water quality criteria (SWQC) exceedances
- tabulation of trace metal detections
- development of time-series trend plots for sodium, calcium, chemical oxygen demand (COD), and TOC
- tabulation of surface water flow rates

The following sections present the required information.

6.1 Historical Data

Appendix H includes historical data for the surface water sampling locations.

6.2 Identification of Analytical Results Outside of Historical Ranges

Appendix J includes a tabulation of maximum and minimum values for each parameter at each sampling location. Golder identified twenty-two new maximum and three new minimum values at both upgradient and downgradient surface water sampling locations during the 2019 sampling events. There were six new maximums for field parameters including flow rate at monitoring locations SW-101, SW-204, and SW-B, specific conductance at monitoring location SW-A, dissolved oxygen at monitoring location SW-102, and field measured turbidity at

monitoring location SW-9. Ten of the new maximums occurred at upgradient surface water monitoring locations including new maximums for chemical oxygen demand, total dissolved solids, total organic carbon, chloride, iron, and magnesium. New maximum alkalinity, ammonia, chemical oxygen demand, chloride, dissolved oxygen, flow rate, nitrate, specific conductance, sodium, total dissolved solids, and total organic carbon results were identified at downgradient surface water monitoring locations. New minimum concentrations included potassium at SW-B, chloride at SW-801, and dissolved oxygen at SW-C. A qualitative review of this information and the time-series trend plots discussed in Section 6.5 and presented in Appendix K does not indicate any significant changes in surface water quality between this sampling event and previous sampling events.

6.3 Comparison to SWQCs

MEDEP requested that the surface water results be compared to Maine's SWQCs. Table 5 lists detections in surface water samples collected during the 2019 sampling events above Maine's SWQC for freshwater criteria maximum concentration (CMC) and criterion continuous concentration (CCC).

TestAmerica detected aluminum at a concentration above the freshwater CCC (0.087 mg/L) at all ten surface water sampling locations during the May/June 2019 monitoring event. Aluminum was not detected at a concentration above the CMC (0.75 mg/L). The detection of aluminum at concentrations above the CCC at both upgradient and downgradient surface water locations indicates that the aluminum detections are not due to landfilling activities.

TestAmerica detected lead at concentrations above the CCC (0.00041 mg/L) at surface water locations in August and November 2019. Lead was detected above the CCC at all three upgradient locations. Lead was also detected above the CCC in downgradient surface water monitoring locations SW-102 (August only), SW-201 (August only), SW-203 (November only), SW-A (November only), and SW-B (August and November). Lead was detected at a concentration above the CMC (0.0152 mg/L) at upgradient location SW-9 in November 2019. The detection of lead at concentrations above the CCC at both upgradient and downgradient surface water locations indicates that the lead detections are not due to landfilling activities.

TestAmerica also detected iron at a concentration above the CCC (1.0 mg/L) in August and November 2019. TestAmerica detected iron at a concentration above the CCC at upgradient locations SW-101 (August and November), SW-9 (November only), and SW-C (November only). Iron was also detected above the CCC at two downgradient locations in August 2019 (SW-201 and SW-B) and one downgradient location (SW-A) in November 2019. The detections of iron at concentrations above the CCC at both upgradient and downgradient surface water locations indicates that the iron detections are not due to landfilling activities.

6.4 Tabulation of Trace Metal Detections

Table 4 lists detections of trace metals in surface water samples above analytical detection limits. Barium was detected above the detection limit in five of ten surface water sampling locations collected from during the May 2019 sampling event. Barium was detected at both upgradient and downgradient locations at similar concentrations, which suggests that barium occurs naturally in soils in the Norridgewock, Maine area. No CMC or CCC standards exist for barium. As discussed in Section 6.3, lead was also detected above the reporting limit at several locations in both August and November 2019. All lead detections are above the CCC (0.00041 mg/L).

6.5 Time-Series Plots and Visual Trend Analysis

As part of the annual sampling event summary report, the WQMP requires the development of time-series plots for each surface water sampling location for indicator parameters sodium, calcium, COD, and TOC. These plots

are presented in Appendix K. A qualitative visual review of the time-series trend plots indicates stable parameter concentrations in surface water.

6.6 Surface Water Flow

Surface water flow rates were observed on May 15, 2019 during the annual 2019 sampling event. The surface water flow rates are summarized below:

Surface Water Flow Rates

Surface Water Sampling Location	Flow Rate (feet/second)
SW-A	Too slow to measure
SW-B	3
SW-C	Still
SW-101	5
SW-102	1
SW-201	2
SW-203	1
SW-204	2
SW-801	1
SW-9	Still

7.0 LEACHATE COLLECTION/LEAK DETECTION

LC and LD flow data are provided in Appendix C. A tabulation of historical analytical results for each LC and LD sampling locations is provided in Appendix H.

7.1 Quantity and Quality of Leachate Generated

Appendix C includes the 2019 daily liquid flow rate measurement data and flow plots for the primary LC systems. Measured flows in the primary systems have been relatively constant or have decreased over time. Observed fluctuations in liquid flow result from normal seasonal variations in precipitation, landfill development and filling operations, and operational/final cover construction.

WMDSM began compositing leachate samples from inactive landfill phases (e.g., 10ALC and 10BLC are now sampled as 10ABLC) in April 2007 in accordance with the WQMP. Katahdin obtained uncomposited samples from individual landfill leachate collection sumps from active landfill Phases 8. Sample location 45LC was dry during the May/June 2019 sampling event and a sample was not collected.

Golder evaluated the leachate quality by preparing time-series plots of the concentrations of six indicator parameters; magnesium, potassium, calcium, chloride, sodium, and alkalinity (see Appendix K). Since 1998, the indicator parameter concentrations have remained relatively constant and with normal fluctuations attributable to seasonal changes in precipitation, landfilling activities, and operations/final cover construction. The active landfill

cell, Phase 8, leachate collection samples, show increases in alkalinity and some other parameters, however, it is not uncommon to observe increases in concentration of indicator parameter during the lifecycle of any landfill cell, especially during active filling. Golder considers the indicator parameter concentration trends observed in 8ALC, 8BLC, and 8CLC leachate samples to be consistent with the trends and concentrations observed in leachate samples from other WMDSM landfill cells and within normal fluctuations and trends for an active landfill cell. In 2019, trends observed in leachate collection samples from Phase 8 were consistent with those expected for landfill cells undergoing filling or covering activities.

Golder also evaluated analytical results for the asbestos landfill toe drain (ABTD). The graph of the indicator parameter concentrations from these samples is provided in Appendix K. The graph shows that indicator parameter concentrations in ABTD toe drain samples have remained essentially unchanged since 1996.

7.2 Quantity and Quality of Liquid in the Leak Detection and Removal System

Appendix C includes the 2019 daily liquid flow rate measurement data and flow plots for the secondary LD collection system. Measured flows in the leak detection sumps were relatively constant during the monitoring period.

WMDSM began compositing leak detection samples in April 2007 for the cells within each inactive landfill phase at the facility (e.g., 10ALD and 10BLD are now sampled as 10ABLD). In June 2019, Katahdin did not collect a sample from 4ABLD and 5ABLD because the locations were dry at the time of the sampling[2].

Golder evaluated the leak detection sample quality by preparing time-series trend plots of the indicator parameter concentrations for samples collected from the leak detection sumps (see Appendix K). In general, the indicator parameter concentrations in 2019 remained constant or slightly decreased.

8.0 WICK DRAINS

A tabulation of historical results for wick drain samples locations 9WD, 8AWD, and 8BCWD is provided in Tables 6, 7, and 8. Golder compared the results to CCCs and MEGs.

Arsenic was detected at a concentration above the MEG of 0.01 mg/L in the total and dissolved metals sample from 8BCWD from all 2019 sample events and above the CCC of 0.15 mg/L in the total sample collected in August 2019 and both the total and dissolved samples collected in November 2019 . Copper was detected just above the CCC of 0.00236 mg/L but below the MEG of 0.5 mg/L in the June 2019 9WD (0.0033 mg/L). Iron was detected above the CCC of 1.0 mg/L, but below the MEG of 5.0 mg/L in the June 2019 sample from 8AWD. Iron was detected above both the CCC and the MEG in all total and dissolved samples from 8BCWD. Manganese was detected above the MEG of 0.3 mg/L in the June 2019 samples collected from 9WD and 8AWD, and all the total and dissolved samples from 8BCWD. Sodium was detected above the MEG of 20 mg/L in all the total and dissolved samples from 8BCWD. Ammonia was detected above the CCC of 3 mg/L in all samples collected in 2019 from 8BCWD. No other parameters were detected at a concentration above MEGs or CCCs during the 2019 sampling events.

VOCs benzene and chloroethane were detected in the sample collected from 8BCWD in June 2019. VOCs chloroethane and methylene chloride were detected in the sample collected from 8BCWD in August 2019 and

[2] These two sampling locations have been dry since late 2005.

chloroethane was detected in the sample collected form 8BCWD in November 2019. All VOC detections were at low levels (i.e., near the detection limit and below their respective MEGs). No VOCs were detected in any other wick drain samples in 2019.

9.0 LANDFILL GAS MIGRATION MONITORING

WMDSM screens 13 permanent gas probes on a quarterly basis for percent oxygen (%O_2) and percent methane (%CH_4) to assess the potential for landfill gas migration. Monitoring data for 2019 are provided in Appendix L. Methane was detected at a low level at MHLMH-8F (0.1 %) in March, September, and December 2019 and at MHLMH-8G (0.1%) in December 2019. Methane was not detected at any other permanent gas probes. The 2019 gas probe screening results do not indicate migration of landfill gas.

WMDSM screens six manhole structures quarterly for %O_2, %CH_4, percent lower explosive limit (LEL), and hydrogen sulfide concentration (in parts per million by volume, ppmv) using a four-gas meter. The manhole screening data for 2019 is provided in Appendix L. The highest percent LEL recorded in 2019 was 0.2% and the highest percent CH_4 recorded in 2019 was 0.4%. Hydrogen sulfide was not detected in any of the manholes. The 2019 manhole structure screening results do not indicate migration of landfill gas.

10.0 CHANGES TO THE WATER QUALITY MONITORING PLAN

On June 17, 2017, MEDEP approved the statistical analysis plan. WMDSM submitted WQMP Revision 6.4, to reflect MEDEP request to submit one annual report in April each year to meet all reporting requirements approved on October 31, 2019. The MEDEP approved Revision 6.4 of the WQMP in an email dated November 14, 2019. All sampling in 2019, was completed according to the WQMP Revision 6.3 and the WQMP Revision 6.4. No changes to the monitoring locations, frequencies or parameters are proposed at this time.

11.0 SUMMARY AND CONCLUSIONS

In accordance with WMDSM's WQMP (Revision 6.4) for the Crossroads Landfill, the 2019 sampling events occurred during April/May/June, August, and November/December 2019. The following summarizes the findings and conclusions of this sampling event:

11.1 Groundwater

- A comparison of 2019 analytical results to historical values identified 52 new maximum and 45 new minimum values, which occurred at both upgradient and downgradient wells. A qualitative review of the new maximum and minimum concentration values does not indicate changes in groundwater quality that require action.
- TestAmerica did not detect TSS at a concentration above 50 mg/L in any of the 2019 groundwater samples.
- TestAmercia did not detect turbidity values above 50 NTUs in any of the 2019 groundwater samples.
- TestAmercia calculated the cation/anion balances to be within 10% for the majority of groundwater sampling locations, however, the calculated cation/anion balances were outside of 10% for one or more samples collected from three upgradient monitoring wells and six downgradient monitoring wells in 2019.
- TestAmerica detected arsenic concentrations above the MEG and MCL standards in at least one groundwater sample collected in 2019 from four upgradient and eleven downgradient monitoring wells. These results are consistent with results from previous sampling events. The only statistically significant increasing trend for arsenic identified at any of these wells was in upgradient bedrock well 617C.

- TestAmerica detected aluminum, iron, manganese, and sodium at concentrations above their respective MEG, MCL and/or SMCL standards in groundwater samples collected from both upgradient and downgradient monitoring wells. None of these detections are associated with statistically significant increases, except for manganese in well 624B, iron in well 106CR, and iron and manganese in 107BR. The detection of these metals at upgradient monitoring wells and lack of increasing trends suggests that the detected concentrations are not the result of a landfill release.
- TestAmerica did not detect VOCs at concentrations above the laboratory reporting limit in any of the groundwater samples analyzed for VOCs in 2019.
- Eagon completed a statistical analysis of groundwater quality results for the Crossroads Landfill in accordance with the “Statistical Analysis Program for Groundwater Quality Monitoring” for the Crossroads Landfill. The following summarizes the results of these statistical analysis:
  - No VOCs were detected at or above the reporting limit during the 2019 annual sampling event.
  - Statistically significant trends were identified in wells upgradient of Phases 1 through 10. These trends are consistent with longer-term fluctuations in upgradient groundwater quality. The variability is most pronounced in upgradient bedrock water quality.
  - Few statistically significant trends were identified in wells upgradient of Phases 11 and 12.
  - A mix of increasing and decreasing statistically significant parameter trends was identified in phreatic and till wells located downgradient of Phases 1 through 10, which are consistent with the previously identified historical episodic releases in the area of Phase 1 through 10.
  - Identified statistically significant parameter trends in phreatic wells located down gradient of Phase 11 and to a lesser extent Phase 12 are interpreted to be the result of the elimination of local precipitation recharge to the phreatic unit and the flow and mixing of connate water from the underlying gray clay into the phreatic unit as a result of increased pore pressures in the gray clay from loading (i.e., landfill construction, waste placement, and final closure construction).
  - Results of the interwell prediction limit evaluation for Phases 11 and 12 are consistent with the results of the trend analysis, indicating a general change in water quality beneath the landfilled areas as a result of the elimination of local precipitation recharge and the mixing of pore water from the gray clay.
  - The linear regression analysis for ORP indicates little statistically significant change in ORP values in site groundwater.

11.2 Surface Water

- A comparison with historical data found three new minimums and 22 new maximums in both upgradient and downgradient surface water locations. A qualitative review of this information does not indicate any significant changes in surface water quality.
- TestAmerica detected aluminum, iron, and lead above the CCC in upgradient and downgradient locations during this monitoring event. The detection of these metals at upgradient monitoring wells indicates that the detections of aluminum, iron and lead at concentrations above CCs are not the result of landfilling activities.

- TestAmerica detected the trace metal barium in most of the surface water samples. The widespread detections of barium in both upgradient and downgradient locations at similar concentrations suggest that barium occurs naturally in the soils in this area.
- Updated time-series plots indicate stable concentrations of sodium, calcium, COD and TOC in surface water samples.

11.3 Leachate Collection/Leak Detection

Measured flows in the primary and secondary systems have been relatively constant or have decreased over time. Observed fluctuations in liquid flow are the result of normal seasonal variations in precipitation, landfill development and filling operations, and operational/final cover construction. Flow rates have not changed significantly since 2018.

Since 1998, the indicator parameter concentrations have remained relatively constant and with normal fluctuations attributable to seasonal changes in precipitation, landfilling activities, and operations/final cover construction. In 2019, trends observed in leachate collection samples from Phase 8 were consistent with those expected for landfill cells undergoing filling or covering activities and have not changed significantly since 2018.

11.4 Wick Drain

Results of the wick drain monitoring do not indicate significant changes since 2018.

11.5 Landfill Gas Migration Monitoring

Monitoring of the permanent gas probes and manhole structures do not indicate migration of landfill gas.

11.6 Conclusions

Results of the 2019 sampling events indicate that no changes in water quality require action and there is no evidence of landfill gas migration.

12.0 REFERENCES

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Maine Department of Environmental Protection (MEDEP, 2006), Maine Solid Waste Management Rules, Chapter 405, Water Quality Monitoring, Leachate Monitoring, and Waste Characterization, June 16, 2006.

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Tables

Table 1
WMDSM Crossroads Landfill
Water Level Measurements

Well	East (ft)	North (ft)	Top of PVC Elevation (ft)	Geologic Unit	Depth to Water (ft)	Date	Water Elevation (ft)	Comments
1008BR2			271.52	Till	12.09	4/26/2019	259.43	Standard Monitoring Well
1008ER2			271.50	Phreatic	10.35	4/26/2019	261.15	Standard Monitoring Well
101A	10314.70	8490.20	271.58	Phreatic	20.44	4/26/2019	251.14	
101C	10309.20	8496.14	272.25	Till	20.75	4/26/2019	251.50	Standard Monitoring Well
101D	10313.90	8499.40	271.12	Rock	20.38	4/26/2019	250.74	
1034A	9865.30	7325.25	255.38	Rock	NM	4/26/2019	NA	
1034B	9883.60	7318.59	257.31	Till	NM	4/26/2019	NA	
1034E	9891.81	7314.50	257.71	Phreatic	NM	4/26/2019	NA	
1040A	8789.85	7854.01	247.89	Rock	8.70	4/26/2019	239.19	
1040B	8798.70	7848.09	248.35	Till	10.35	4/26/2019	238.00	Standard Monitoring Well
1040E	8807.10	7840.69	249.54	Phreatic	10.68	4/26/2019	238.86	
1041A	9041.69	7501.95	249.65	Rock	5.05	4/26/2019	244.60	
1041B	9052.82	7507.42	250.18	Till	NM	4/26/2019	NA	Unable to measure. Standard
1041E	9058.39	7513.35	252.00	Phreatic	17.48	4/26/2019	234.52	
1044A	9058.39	6948.46	249.27	Rock	5.02	4/26/2019	244.25	
1044B	9544.44	6938.65	249.42	Till	5.25	4/26/2019	244.17	
1044E	9539.74	6967.99	251.33	Phreatic	5.64	4/26/2019	245.69	
104C	9975.90	8024.60	256.50	Till	6.03	4/26/2019	250.47	Standard Monitoring Well
104D	9975.90	8024.60	256.47	Rock	5.70	4/26/2019	250.77	Standard Monitoring Well
106CR	9469.23	7555.10	258.25	Till	19.30	4/26/2019	238.95	Standard Monitoring Well
106DR	9458.59	7552.60	258.67	Rock	19.21	4/26/2019	239.46	Standard Monitoring Well
106WR	9452.65	7562.72	259.44	Phreatic	18.56	4/26/2019	240.88	Standard Monitoring Well
107BR	8977.02	8049.67	266.13	Till	20.10	4/26/2019	246.03	Standard Monitoring Well
107CR	8970.70	8044.80	265.71	Rock	19.80	4/26/2019	245.91	Standard Monitoring Well
107W	8970.54	8055.50	262.85	Phreatic	17.10	4/26/2019	245.75	
1134B	13563.13	4631.53	245.13	Rock	20.87	4/26/2019	224.26	Standard Monitoring Well
310AW	9884.92	10983.92	275.38	Phreatic	3.23	4/26/2019	272.15	Standard Monitoring Well
310C	9853.17	10994.21	273.36	Till	2.56	4/26/2019	270.80	Standard Monitoring Well
310D	9874.06	10987.19	272.70	Rock	0.12	4/26/2019	272.58	Standard Monitoring Well
617A	10514.64	10033.17	268.66	Phreatic	3.75	4/26/2019	264.91	Standard Monitoring Well
617C	10516.32	10041.49	269.04	Rock	11.25	4/26/2019	257.79	Standard Monitoring Well
618AR	10346.50	9163.29	267.66	Phreatic	9.03	4/26/2019	258.63	Standard Monitoring Well
618CR	10346.64	9168.25	267.33	Till	13.86	4/26/2019	253.47	Standard Monitoring Well
620A	8571.18	9275.80	261.56	Phreatic	8.89	4/26/2019	252.67	Standard Monitoring Well
620C	8567.50	9272.90	261.58	Till	8.80	4/26/2019	252.78	Standard Monitoring Well
624A	8912.00	7689.35	249.26	Rock	6.37	4/26/2019	242.89	
624B	8916.27	7662.88	249.77	Till	6.84	4/26/2019	242.93	Standard Monitoring Well
624E	8920.85	7665.65	250.65	Phreatic	7.27	4/26/2019	243.38	
626B	9231.24	7319.46	252.09	Till	11.47	4/26/2019	240.62	Standard Monitoring Well
626E	9235.54	7324.91	253.17	Phreatic	9.56	4/26/2019	243.61	
627A	8831.98	6609.50	241.99	Rock	1.52	4/26/2019	240.47	Standard Monitoring Well
628A	8741.29	6451.25	242.19	Rock	1.71	4/26/2019	240.48	Standard Monitoring Well
629B	8950.16	8439.22	265.64	Till	16.83	4/26/2019	248.81	Standard Monitoring Well
629E	8950.02	8434.35	265.68	Phreatic	16.02	4/26/2019	249.66	Standard Monitoring Well
630B	8767.89	8968.05	269.80	Till	17.97	4/26/2019	251.83	Standard Monitoring Well
630E	8780.24	8955.90	269.60	Phreatic	7.81	4/26/2019	261.79	Standard Monitoring Well
W9-1E	10146.52	8670.23	260.30	Phreatic	2.30	4/26/2019	258.00	Standard Monitoring Well
W9-2E	9860.26	8400.42	261.02	Phreatic	3.68	4/26/2019	257.34	Standard Monitoring Well
W9-3E	9462.64	8426.62	266.68	Phreatic	4.60	4/26/2019	262.08	
W9-4E	10040.23	9214.46	259.92	Phreatic	2.08	4/26/2019	257.84	

Table 1
WMDSM Crossroads Landfill
Water Level Measurements

Well	East (ft)	North (ft)	Top of PVC Elevation (ft)	Geologic Unit	Depth to Water (ft)	Date	Water Elevation (ft)	Comments
W11-1B	11263.91	8539.33	272.54	Till	20.03	4/26/2019	252.51	Standard Monitoring Well
W11-1ER	11381.87	8338.63	272.07	Phreatic	7.50	4/26/2019	264.57	Standard Monitoring Well
W11-2E	11263.91	7859.43	266.63	Phreatic	5.12	4/26/2019	261.51	Standard Monitoring Well
W11-3E	10441.27	8248.80	261.93	Phreatic	4.68	4/26/2019	257.25	Standard Monitoring Well
W11-4E	10574.83	7691.59	277.21	Phreatic	20.26	4/26/2019	256.95	Standard Monitoring Well
W11-5B	11082.56	7102.30	274.89	Till	24.95	4/26/2019	249.94	Standard Monitoring Well
W11-5E	11079.27	7105.99	273.28	Phreatic	13.73	4/26/2019	259.55	Standard Monitoring Well
W11-6E	11461.64	7180.63	274.89	Phreatic	13.76	4/26/2019	261.13	Standard Monitoring Well
W12-1B	12245.02	6985.02	254.50	Till	5.85	4/26/2019	248.65	Standard Monitoring Well
W12-1E	12350.01	6820.01	263.50	Phreatic	7.06	4/26/2019	256.44	Standard Monitoring Well
W12-2E	12595.00	6450.00	268.40	Phreatic	5.85	4/26/2019	262.55	Standard Monitoring Well
W12-3E	11575.01	6700.05	247.70	Phreatic	5.63	4/26/2019	242.07	Standard Monitoring Well
W12-4B	11954.98	6150.03	251.50	Till	17.12	4/26/2019	234.38	Standard Monitoring Well
W12-4E	11959.98	6155.03	252.45	Phreatic	6.02	4/26/2019	246.43	Standard Monitoring Well
W12-5E	11709.17	6371.15	261.11	Phreatic	6.70	4/26/2019	254.41	Standard Monitoring Well
TOTMAN	NA	NA	Unknown	Unknown	18.47	4/26/2019	Unknown	Standard Monitoring Well
SW-101	NA	NA	259.38	Phreatic	0.82	4/26/2019	258.56	
SW-102	NA	NA	253.57	Phreatic	NM	4/26/2019	NA	Stake out of water
SW-201	NA	NA	236.83	Phreatic	NM	4/26/2019	NA	Underwater
SW-203	NA	NA	241.55	Phreatic	2.29	4/26/2019	239.26	
SW-204	NA	NA	239.08	Phreatic	1.40	4/26/2019	237.68	
SW-801	NA	NA	246.9	Phreatic	1.38	4/26/2019	245.52	
SW-9	NA	NA	240.3	Phreatic	NM	4/26/2019	NA	Stake out of water
SW-A	NA	NA	249	Phreatic	NM	4/26/2019	NA	Stake out of water
SW-B	NA	NA	234.91	Phreatic	1.28	4/26/2019	233.63	
SW-C	NA	NA	245.73	Phreatic	0.65	4/26/2019	245.08	

Notes:
NA = not available
ft = feet
SW = Surface water

Prepared by: TK
Checked by: ERW
Reviewed by: APTM

Table 2
WMDSM Crossroads Landfill
Turbidity/Total Suspended Solids Report

Sample Point	Sample Date	Total Suspended Solids (mg/L)	Turbidity (NTU)
1008BR2	5/22/2019	< 4.0	0
1008BR2	8/19/2019	< 4.0	0
1008BR2	11/11/2019	< 4.0	0
1008ER2	5/22/2019	< 4.0	0
1008ER2	8/19/2019	4	0
1008ER2	11/11/2019	< 4.0	0
101C	5/21/2019	5.2	1.7
101C	8/7/2019	< 4.0	1.8
101C	11/8/2019	< 4.0	1.5
1040B	5/13/2019	< 4.0	0.5
1040B	8/28/2019	< 4.0	5
1040B	12/10/2019	< 4.0	2
1041B	5/13/2019	< 4.0	2.1
1041B	8/20/2019	< 4.0	0.7
1041B	12/10/2019	< 4.0	0.9
104C	6/10/2019	< 4.0	0
104C	8/7/2019	< 4.0	1.8
104C	11/18/2019	< 4.0	0.4
104D	6/4/2019	< 4.0	1.0
104D	8/7/2019	< 4.0	2.5
104D	11/18/2019	< 4.0	0.8
106CR	5/20/2019	< 4.0	0
106CR	8/8/2019	< 4.0	4
106CR	11/12/2019	< 4.0	11
106DR	5/20/2019	< 4.0	0
106DR	8/8/2019	< 4.0	4.1
106DR	11/12/2019	< 4.0	1.1
106WR	5/20/2019	12	2.4
106WR	8/8/2019	16	10.6
106WR	11/12/2019	< 4.0	8.7
107BR	5/21/2019	4.8	1.2
107BR	8/9/2019	6.4	6.1
107BR	11/13/2019	< 4.0	0.8
107CR	5/21/2019	< 4.0	0
107CR	8/9/2019	< 4.0	5.7
107CR	11/13/2019	< 4.0	0
1134B	5/13/2019	< 4.0	0.7
1134B	8/27/2019	< 4.0	0
1134B	11/14/2019	< 4.0	0
310AW	6/14/2019	< 4.0	0
310AW	8/20/2019	< 4.0	0
310AW	11/11/2019	< 4.0	1.4
310C	6/13/2019	4.4	3.3
310C	8/21/2019	< 4.0	0.1
310C	11/13/2019	< 4.0	2.3
310D	6/13/2019	< 4.0	0
310D	8/21/2019	< 4.0	0
310D	11/13/2019	< 4.0	0.8

Table 2
WMDSM Crossroads Landfill
Turbidity/Total Suspended Solids Report

Sample Point	Sample Date	Total Suspended Solids (mg/L)	Turbidity (NTU)
617A	5/13/2019	48	4.2
617A	8/20/2019	12	0
617A	11/18/2019	24	11
617C	5/13/2019	6.4	3.0
617C	8/20/2019	5.6	2.9
617C	11/18/2019	4.4	4.5
618AR	5/13/2019	11	1.2
618AR	8/27/2019	< 4.0	0
618AR	12/10/2019	< 4.0	0
618CR	5/13/2019	< 4.0	0
618CR	8/30/2019	< 4.0	4.8
618CR	12/10/2019	< 4.0	0
620A	5/16/2019	< 4.0	1.8
620A	8/30/2019	< 4.0	0
620A	11/7/2019	4.8	19.8
620C	5/16/2019	< 4.0	0.9
620C	8/21/2019	< 4.0	0
620C	11/7/2019	< 4.0	0.8
624B	6/14/2019	< 4.0	0
624B	8/28/2019	< 4.0	5.2
624B	12/10/2019	< 4.0	3.6
626B	6/5/2019	< 4.0	0.3
626B	8/28/2019	< 4.0	5.6
626B	11/19/2019	< 4.0	0
627A	6/5/2019	< 4.0	0.2
627A	8/8/2019	< 4.0	0
627A	11/11/2019	< 4.0	2
628A	6/5/2019	< 4.0	1.4
628A	8/8/2019	< 4.0	0
628A	11/19/2019	< 4.0	10.6
629B	5/14/2019	< 4.0	1.6
629B	8/8/2019	< 5.3	7.5
629B	11/7/2019	< 4.0	0
629E	5/15/2019	< 4.0	3.3
629E	8/8/2019	< 4.0	5.6
629E	11/7/2019	< 4.0	0.7
630B	5/16/2019	< 4.0	5.7
630B	8/7/2019	< 4.0	4.4
630B	11/7/2019	< 4.0	0.6
630E	5/14/2019	< 4.0	1.9
630E	8/7/2019	< 4.0	1.3
630E	11/7/2019	< 4.0	2.8
TRANS	6/13/2019	< 4.0	0.8
TRANS	8/9/2019	< 4.0	4.5
TRANS	11/19/2019	< 4.0	0
W11-1B	5/16/2019	< 4.0	0.5
W11-1B	8/5/2019	< 4.0	0

Table 2
WMDSM Crossroads Landfill
Turbidity/Total Suspended Solids Report

Sample Point	Sample Date	Total Suspended Solids (mg/L)	Turbidity (NTU)
W11-1B	12/10/2019	< 4.0	0.1
W11-1ER	5/21/2019	< 4.0	1.9
W11-1ER	8/5/2019	20	26.2
W11-1ER	11/11/2019	< 4.0	0
W11-2E	5/20/2019	< 4.0	0.8
W11-2E	8/7/2019	< 4.0	4
W11-2E	11/11/2019	< 4.0	5.2
W11-3E	5/21/2019	< 4.0	2.9
W11-3E	8/5/2019	< 4.0	5.2
W11-3E	11/14/2019	< 4.0	0
W11-4E	5/20/2019	< 4.0	0.9
W11-4E	8/5/2019	< 4.0	4.8
W11-4E	11/8/2019	< 4.0	5.2
W11-5B	5/20/2019	< 4.0	3.5
W11-5B	8/5/2019	< 4.0	0
W11-5B	11/8/2019	< 4.0	0.4
W11-5E	5/20/2019	< 4.0	3.9
W11-5E	8/5/2019	< 4.0	0
W11-5E	11/8/2019	< 4.0	2.6
W11-6E	5/3/2019	< 4.0	0
W11-6E	8/5/2019	< 4.0	2.6
W11-6E	11/19/2019	< 4.0	0
W12-1B	6/4/2019	< 4.0	0.2
W12-1B	8/7/2019	< 4.0	0.2
W12-1B	11/13/2019	< 4.0	0
W12-1E	11/25/2019	< 5.2	61.1
W12-2E	6/4/2019	< 4.0	2.0
W12-2E	8/6/2019	< 4.0	2
W12-2E	12/19/2019	< 4.0	0.3
W12-3E	6/7/2019	< 4.0	0
W12-3E	8/6/2019	< 4.0	1.7
W12-3E	11/20/2019	< 4.0	0.2
W12-4B	5/22/2019	< 4.0	0.5
W12-4B	8/6/2019	< 4.0	0.3
W12-4B	11/20/2019	< 4.0	0
W12-4E	5/22/2019	< 4.0	0.5
W12-4E	8/6/2019	< 4.0	3.2
W12-4E	11/11/2019	< 4.0	1.7
W12-5E	5/21/2019	< 4.0	0
W12-5E	8/19/2019	< 4.0	0
W12-5E	12/10/2019	< 4.0	0
W9-1E	6/10/2019	< 4.0	0
W9-1E	8/21/2019	< 4.0	0
W9-1E	11/18/2019	< 4.0	1.4
W9-2E	6/10/2019	< 4.0	0.1
W9-2E	8/21/2019	< 4.0	0
W9-2E	11/18/2019	< 4.0	0.6

Notes:
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
"<"= Result is less than the laboratory reporting limit, laboratory reporting limit is given

Prepared by: ERW
Checked by: DFSC
Reviewed by: APTM

WMDSM Crossroads Landfill
Groundwater Exceedance Report

Location	Date	T/D	Chemical	Aluminum	Arsenic	Iron	Manganese	Sodium	Uranium
			Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
			MCL		**0.01**				
			SMCL	**0.05**		**0.30**	**0.05**		
			MEG	7	**0.01**	5	**0.3**	**20**	**30**
1008ER2	5/22/2019	T					1		
1008ER2	8/19/2019	T					1.6		
1008ER2	11/11/2019	T					1.6		
101C	5/21/2019	T			0.021				
101C	8/7/2019	T			0.021				
101C	11/8/2019	T			0.021				
1040B	5/13/2019	T					0.06		
1040B	8/28/2019	T					0.097		
1040B	12/10/2019	T					0.096		
1041B	8/20/2019	T					3.9		
104C	6/10/2019	T			0.011		0.55		
104C	8/7/2019	T			0.011		0.21		
104C	11/18/2019	T			0.015	0.37	0.85		
104D	6/4/2019	T						39	
104D	8/7/2019	T						36	
104D	11/18/2019	T						41	
106CR	5/20/2019	T				0.36	0.2		
106CR	8/8/2019	T					0.13		
106CR	11/12/2019	T				0.49	0.18		
106WR	8/8/2019	T		0.37		0.57			
106WR	11/12/2019	T				0.32			
107BR	5/21/2019	T				3.2	1.8		
107BR	8/9/2019	T				4.7	2.3		
107BR	11/13/2019	T				3.8	2.4		
107CR	5/21/2019	T						54	
107CR	8/9/2019	T						56	
107CR	11/13/2019	T						52	
1134B	5/13/2019	T			0.012			45	
1134B	8/27/2019	T			0.013			46	
1134B	11/14/2019	T			0.011			47	
617A	5/13/2019	T				0.56		29	
617A	8/20/2019	T		0.36	0.017			36	
617A	11/18/2019	T				0.32	0.051	35	
617C	5/13/2019	T			0.013			34	
617C	8/20/2019	T				0.38	0.057	26	
617C	11/18/2019	T		0.43	0.015			38	
618AR	8/27/2019	T					0.41	20	
618AR	12/10/2019	T						20	
618CR	5/13/2019	T			0.015				
618CR	12/10/2019	T			0.016				
620A	8/30/2019	T			0.016				
620A	11/7/2019	T		0.27		0.69			
620C	5/16/2019	T			0.026				
620C	8/21/2019	T			0.024				
620C	11/7/2019	T			0.024				
624B	6/14/2019	T					1.9		
624B	8/28/2019	T					1.2		
624B	12/10/2019	T					1.9		

Table 3
WMDSM Crossroads Landfill
Groundwater Exceedance Report

Location	Date	T/D	Chemical	Aluminum	Arsenic	Iron	Manganese	Sodium	Uranium
			Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
			MCL		**0.01**				
			SMCL	**0.05**		**0.30**	**0.05**		
			MEG	7	**0.01**	5	**0.3**	**20**	**30**
629B	5/14/2019	T			0.015				
629B	8/8/2019	T			0.014				
629B	11/7/2019	T			0.017				
630B	5/16/2019	T			0.012				
630B	8/7/2019	T			0.015				
630B	11/7/2019	T			0.018				
630E	5/14/2019	T					1		
630E	8/7/2019	T					0.96		
630E	11/7/2019	T					0.46		
TRANS	6/13/2019	T							57
W11-1B	5/16/2019	T			0.031				
W11-1B	8/5/2019	T			0.028				
W11-1B	12/10/2019	T			0.03				
W11-1ER	5/21/2019	T		0.82		0.59	0.46		
W11-1ER	8/5/2019	T					0.093		
W11-1ER	11/11/2019	T					0.31		
W11-5B	5/20/2019	T			0.018				
W11-5B	8/5/2019	T			0.019				
W11-5B	11/8/2019	T			0.021				
W11-5E	5/20/2019	T			0.011				
W11-5E	8/5/2019	T			0.01				
W11-5E	11/8/2019	T			0.013		0.12		
W12-1B	6/4/2019	T			0.012		0.083		
W12-1B	11/13/2019	T			0.012		0.077		
W12-1E	11/25/2019	T		2.7		3.7	0.06		
W12-4B	5/22/2019	T			0.021				
W12-4B	8/6/2019	T			0.022				
W12-4B	11/20/2019	T			0.02				
W12-5E	8/19/2019	T					0.065		
W9-1E	11/18/2019	T						20	

Notes:

mg/l = milligrams per liter

ug/L= microgram per liter

MCL= maximum contaminant level

SMCL= secondary MCL, standards have been adopted primarily for aesthetic or cosmetic effects, not an enforceable federal guideline.

MEG = maximum exposure guideline

T/D= total or dissolved fraction

Prepared by: ERW
Checked by: DFSC
Reviewed by: APTM

Table 4
WMDSM Crossroads Landfill
Groundwater and Surface Water Trace Metals Detections

			Parameter	Arsenic	Barium	Chromium	Lead
			Unit	mg/L	mg/L	mg/L	mg/L
Sample Point	Sample Date	T/D	Reporting Limit	0.0090	0.0050	0.010	0.00040
Groundwater							
101C	5/21/2019	T		0.021			
101C	8/7/2019	T		0.021			
101C	11/8/2019	T		0.021			
1040B	5/13/2019	T			0.0085		
1040B	8/28/2019	T			0.0084		
1040B	12/10/2019	T			0.0089		
1041B	5/13/2019	T			0.021		
1041B	8/20/2019	T			0.042		
1041B	12/10/2019	T			0.041		
104C	6/10/2019	T		0.011	0.0071		
104C	8/7/2019	T		0.011			
104C	11/18/2019	T		0.015	0.0086		
104D	6/4/2019	T		0.0092			
106CR	5/20/2019	T			0.018		
106CR	8/8/2019	T			0.013		
106CR	11/12/2019	T			0.017		
106DR	5/20/2019	T			0.020		
106DR	8/8/2019	T			0.022		
106DR	11/12/2019	T			0.022		
106WR	8/8/2019	T			0.0073		
106WR	11/12/2019	T			0.0060		
107BR	5/21/2019	T			0.041		
107BR	8/9/2019	T			0.051		
107BR	11/13/2019	T			0.043		
107CR	5/21/2019	T		0.0093			
1134B	5/13/2019	T		0.012			
1134B	8/27/2019	T		0.013			
1134B	11/14/2019	T		0.011			
310D	8/21/2019	T		0.0091			
617A	5/13/2019	T			0.011		
617A	8/20/2019	T		0.017			
617A	11/18/2019	T			0.010		
617C	5/13/2019	T		0.013			
617C	8/20/2019	T			0.010		
617C	11/18/2019	T		0.015			
618CR	5/13/2019	T		0.015	0.028		
618CR	8/30/2019	T			0.019		
618CR	12/10/2019	T		0.016	0.028		
620A	5/16/2019	T			0.035		
620A	8/30/2019	T		0.016	0.023		
620A	11/7/2019	T			0.12		
620C	5/16/2019	T		0.026	0.14		
620C	8/21/2019	T		0.024	0.14		
620C	11/7/2019	T		0.024	0.14		
624B	6/14/2019	T			0.023		
624B	8/28/2019	T			0.026		
624B	12/10/2019	T			0.025		
629B	5/14/2019	T		0.015			
629B	8/8/2019	T		0.014			
629B	11/7/2019	T		0.017			
629E	5/15/2019	T			0.0059	0.011	
629E	8/8/2019	T			0.0085		
629E	11/7/2019	T			0.0064	0.011	
630B	5/16/2019	T		0.012	0.011		
630B	8/7/2019	T		0.015	0.010		
630B	11/7/2019	T		0.018	0.010		
W11-1B	5/16/2019	T		0.031			
W11-1B	8/5/2019	T		0.028			
W11-1B	12/10/2019	T		0.030			
W11-1ER	5/21/2019	T			0.016		
W11-1ER	8/5/2019	T			0.0097		
W11-1ER	11/11/2019	T			0.011		
W11-3E	5/21/2019	T			0.0095		
W11-3E	8/5/2019	T			0.010		
W11-3E	11/14/2019	T			0.0083		
W11-5B	5/20/2019	T		0.018			
W11-5B	8/5/2019	T		0.019			
W11-5B	11/8/2019	T		0.021			
W11-5E	5/20/2019	T		0.011			
W11-5E	8/5/2019	T		0.010			
W11-5E	11/8/2019	T		0.013			

Table 4
WMDSM Crossroads Landfill
Groundwater and Surface Water Trace Metals Detections

			Parameter	Arsenic	Barium	Chromium	Lead
			Unit	mg/L	mg/L	mg/L	mg/L
Sample Point	Sample Date	T/D	Reporting Limit	0.0090	0.0050	0.010	0.00040
W12-1B	6/4/2019	T		0.012	0.0059		
W12-1B	8/7/2019	T		0.0090	0.0050		
W12-1B	11/13/2019	T		0.012	0.0054		
W12-1E	11/25/2019	T			0.024		
W12-2E	6/4/2019	T			0.0085		
W12-2E	8/6/2019	T			0.010		
W12-2E	12/19/2019	T			0.0091		
W12-3E	6/7/2019	T			0.0051		
W12-3E	8/6/2019	T			0.0050		
W12-3E	11/20/2019	T			0.0052		
W12-4B	5/22/2019	T		0.021			
W12-4B	8/6/2019	T		0.022			
W12-4B	11/20/2019	T		0.020			
W12-4E	5/22/2019	T			0.0065		
W12-4E	8/6/2019	T			0.0085		
W12-4E	11/11/2019	T			0.0075		
W12-5E	5/21/2019	T			0.0066		
W12-5E	8/19/2019	T			0.0090		
W12-5E	12/10/2019	T			0.0096		
Surface Water							
SW-101	5/15/2019	T			0.0066		
SW-101	8/22/2019	T					0.0045
SW-101	11/18/2019	T					0.00053
SW-102	5/15/2019	T			0.0069		
SW-102	8/22/2019	T					0.00047
SW-201	8/22/2019	T					0.00088
SW-203	11/18/2019	T					0.00047
SW-204	5/15/2019	T			0.0067		
SW-9	11/18/2019	T					0.019
SW-A	11/18/2019	T					0.0017
SW-B	5/15/2019	T			0.0065		
SW-B	8/22/2019	T					0.0017
SW-B	11/18/2019	T					0.00065
SW-C	5/15/2019	T			0.0055		
SW-C	8/22/2019	T					0.0024
SW-C	11/18/2019	T					0.0016

Notes:
mg/L = milligrams per liter
T/D= total or dissolved fraction

Prepared by: ERW
Checked by: DFSC
Reviewed by: APTM

Table 5
WMDSM Crossroads Landfill
Comparison of Surface Water Analytical Results to Surface Water CMCs and CCCs

Sample Location	Sample Date	Chemical	Aluminum	Iron	Lead
		Unit	mg/L	mg/L	mg/L
		CMC	0.75	--	**0.0152**
		CCC	**0.087**	**1**	**0.00041**
SW-101	5/15/2019		**0.28**		
SW-101	8/22/2019			**1.90**	**0.0045**
SW-101	11/18/2019			**1.30**	**0.00053**
SW-102	5/15/2019		**0.12**		
SW-102	8/22/2019				**0.00047**
SW-201	5/15/2019		**0.20**		
SW-201	8/22/2019			**1.40**	**0.00088**
SW-203	5/15/2019		**0.13**		
SW-203	11/18/2019				**0.00047**
SW-204	5/15/2019		**0.33**		
SW-801	5/15/2019		**0.10**		
SW-9	5/15/2019		**0.13**		
SW-9	11/18/2019			**37.0**	**0.019**
SW-A	5/15/2019		**0.34**		
SW-A	11/18/2019			**15.0**	**0.0017**
SW-B	5/15/2019		**0.29**		
SW-B	8/22/2019			**1.40**	**0.0017**
SW-B	11/18/2019				**0.00065**
SW-C	5/15/2019		**0.26**		
SW-C	8/22/2019				**0.0024**
SW-C	11/18/2019			**1.40**	**0.0016**

Notes:
Bold Indicates the result is above the method detection limit and above the standard
mg/L = milligrams per liter
"--" = standard does not exist
CMC = criteria maximum concentration
CCC = criterion continuous concentration

Prepared by: ERW
Checked by: DFSC
Reviewed by: APTM

Table 6
WMDSM Crossroads Landfill
Phase 9 Wick Drain Analytical Data

Parameters **Sampling Date**	Water Quality Criteria CCC (freshwater) mg/L	Maximum Exposure Guidelines (MEGs) (mg/L)	**9WD** (Wick Drain) 8/8/2001	**9WD** (Wick Drain) 2/25/2002	**9WD** (Wick Drain) 6/10/2002	**9WD** (Wick Drain) Unfiltered 11/25/2002	**9WD** (Wick Drain) Field Filtered 11/25/2002	**9WD** (Wick Drain) Unfiltered 12/10/2002	**9WD** (Wick Drain) Lab Filtered 12/10/2002	**9WD** (Wick Drain) Unfiltered 5/15/2003	**9WD** (Wick Drain) Lab Filtered 5/15/2003	**9WD** (Wick Drain) Unfiltered 8/13/2003	**9WD** (Wick Drain) Lab Filtered 8/13/2003	**9WD** (Wick Drain) Unfiltered 12/5/2003	**9WD** (Wick Drain) Lab Filtered 12/5/2003
VOCs Method 8260 (mg/L)															
Toluene	-	0.6	0.0073	ND (0.0050)	ND (0.0050)	NA	NA	ND (0.0050)	NA	ND (0.0050)	NA	ND (0.0050)	NA	ND (0.0050)	NA
Total Xylenes	-	1	0.013	ND (0.010)	ND (0.010)	NA	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Metals Analysis (mg/L)						**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.0088	0.060	0.14	0.17	ND (0.008)	ND (0.0050)	ND (0.0050)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.010)
Barium	-	1	0.051	0.45	1.0	1.09	0.0159	0.026	0.017	0.018	0.016	0.015	0.017	0.019	0.020
Cadmium	0.00008	0.001	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.020)	ND (0.0100)	ND (0.0050)	ND (0.0050)	ND (0.00050)	0.0012	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	38.4	85.7	89.7	110	71.6	66.7	64.2	60.1	58.4	58.5	61.4	56.6	58.4
Chromium	0.011	0.02	0.017	0.20	0.52	0.571	ND (0.0150)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	ND (0.025)	0.24	0.50	0.67	ND (0.0250)	ND (0.025)	ND (0.025)	0.0023	0.0021	0.0022	0.0025	0.0028	0.0020
Iron	1	5	14.4	151	396	436	0.24	1.8	ND (0.030)	0.042	ND (0.030)	ND (0.033)	ND (0.030)	ND (0.030)	ND (0.030)
Magnesium	-	-	12.9	58.8	124	135	17.8	17.7	16.4	13.9	13.2	14.3	14	12.8	13.3
Manganese	-	0.3	0.50	5.6	11.2	22.0	0.0922	0.20	0.13	0.20	0.19	0.33	0.32	0.14	0.14
Mercury	0.00077	0.002	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	NA	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	ND (0.040)	0.22	0.54	0.69	ND (0.0400)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	8.5	24.3	58.8	45.4	6.3	6.4	6.6	5.5	5.7	5.0	5.6	5.1	5.4
Silver	-	0.04	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.030)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	12.8	26.6	25.4	27.8	26.6	25.8	25.2	24.9	24.0	26.9	27.1	33.8	35.0
Vanadium	-	0.2	ND (0.025)	0.18	0.48	0.468	ND (0.0250)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	0.033	0.38	0.91	1.01	ND (0.0250)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)															
Alkalinity, Bicarbonate	-	-	69.7	201	NA	NA	NA	172	NA	194	NA	255	NA	290	NA
Alkalinity, Total (Lab)	-	-	69.7	201	201	NA	NA	172	NA	194	NA	255	NA	290	NA
Alkalinity, Total (Field)	-		NA	NA	NA	NA	NA	NA	NA	258.6	NA	378.4	NA	217	NA
Ca, Mg Hardness	-	-	149	456	734	NA	NA	228	NA	200	NA	211	NA	200	NA
Chemical Oxygen Demand	-	-	ND (10)	ND (10)	ND (10)	NA	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA
Total Organic Carbon	-	-	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific Conductance (Lab) (µmhos/cm)	-		NA	NA	NA	NA	NA	NA	NA	497	NA	350	NA	280	NA
Ammonia	3	30	ND (0.020)	ND (0.020)	0.086	NA	NA	ND (0.020)	NA	ND (0.020)	NA	ND (0.020)	NA	ND (0.020)	NA
Chloride	230	-	5.9	56.2	17.8	NA	NA	13.6	NA	14.6	NA	13.4	NA	17.2	NA
Nitrate	-	10	0.29	1.4	0.72	NA	NA	0.52	NA	0.12	NA	0.18	NA	0.12	NA
Sulfate	-	-	14.6	41.6	33.2	NA	NA	27.6	NA	28.6	NA	26.6	NA	29.4	NA
Total Dissolved Solids	-	-	189	NA	NA	NA	NA	NA	NA	326	NA	362	NA	307	NA
Field Parameters															
Specific Conductance (µmhos/cm)	-	-	250	560	404	NA	NA	520	NA	493	NA	485	NA	451	NA
pH (S.U.)	-	-	7.42	7.25	6.90	NA	NA	7.01	NA	6.68	NA	6.81	NA	6.31	NA
Temperature (degrees C)	-	-	21.2	6.5	12.2	NA	NA	7.7	NA	15.2	NA	21.8	NA	12.3	NA
Turbidity (NTUs)	-	-	none	heavy	heavy	>1,000	none	32	NA	0.20	NA	0.90	NA	13.1	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = criteria maximum concentration
6. J = estimated concentration
7. B = analyte detected in method blank
8. * = LCS or LCSD is outside acceptance limits.
9. F1 = MS and/or MSD Recovery is outside acceptance limits.
10. NTU = Nephelometric Turbidity Unit

Table 6
WMDSM Crossroads Landfill
Phase 9 Wick Drain Analytical Data

Parameters **Sampling Date**	Water Quality Criteria CCC (freshwater) mg/L	Maximum Exposure Guidelines (MEGs) (mg/L)	**9WD** (Wick Drain) Unfiltered 5/12/2004	**9WD** (Wick Drain) Lab Filtered 5/12/2004	**9WD** (Wick Drain) Unfiltered 8/10/2004	**9WD** (Wick Drain) Lab Filtered 8/10/2004	**9WD** (Wick Drain) Unfiltered 12/3/2004	**9WD** (Wick Drain) Lab Filtered 12/3/2004	**9WD** (Wick Drain) Unfiltered 5/19/2005	**9WD** (Wick Drain) Lab Filtered 5/19/2005	**9WD** (Wick Drain) Unfiltered 8/16/2005	**9WD** (Wick Drain) Lab Filtered 8/16/2005	**9WD** (Wick Drain) Unfiltered 12/28/2005	**9WD** (Wick Drain) Lab Filtered 12/28/2005	**9WD** (Wick Drain) Unfiltered 5/16/2006
VOCs Method 8260 (mg/L)															
Toluene	-	0.6	ND (0.0050)	NA	ND (0.0050)	NA	ND (0.0050)	NA	ND (0.0050)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)
Total Xylenes	-	1	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**
Arsenic	0.15	0.010	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)
Barium	-	1	0.015	0.016	0.013	0.014	0.014	0.013	0.016	0.023	0.011	0.012	0.012	0.013	0.013
Cadmium	0.00008	0.001	0.00054	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	62.5	62.3	65.2	67.1	61.2	58.2	63.6	63.3	58.2	59.4	57.7	61.4	59.4
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	NA
Copper	0.00236	0.5	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	ND (0.030)	ND (0.030)	0.036	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)
Magnesium	-	-	14.7	14.8	16.1	16.5	15.1	14.3	15.0	14.9	13.9	14.1	13.4	14.2	15.0
Manganese	-	0.3	0.32	0.32	1.2	1.2	0.40	0.36	0.47	0.59	1.1	0.95	0.22	0.25	0.56
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	NA
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	NA
Potassium	-	-	5.4	5.4	5.3	5.6	5.5	5.2	5.6	5.5	4.6	4.7	4.9	4.8	5.2
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	NA
Sodium	-	20	32.8	32.1	31.2	32.3	29.0	27.6	24.8	24.4	22.2	22.6	20.4	20.8	23.0
Vanadium	-	0.2	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	NA
Zinc	0.0306	2	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	NA
Wet Chemistry Analysis (mg/L)															
Alkalinity, Bicarbonate	-	-	295	NA	312	NA	250	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	295	NA	312	NA	250	NA	223	NA	216	NA	221	NA	195
Alkalinity, Total (Field)	-		217	NA	221	NA	211	NA	NA	NA	NA	NA	202	NA	NA
Ca, Mg Hardness	-	-	216	NA	235	NA	204	NA	219	NA	ND (5.0)	NA	212	NA	210
Chemical Oxygen Demand	-	-	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA	10
Total Organic Carbon	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific Conductance (Lab) (µmhos/cm)	-		531	NA	429	NA	514	NA	474	NA	413	NA	406	NA	476
Ammonia	3	30	0.075	NA	0.055	NA	0.042	NA	0.038	NA	0.12	NA	ND (0.020)	NA	0.071
Chloride	230	-	16.0	NA	14.0	NA	10.4	NA	9.2	NA	9.1	NA	7.7	NA	7.4
Nitrate	-	10	0.16	NA	0.22	NA	0.16	NA	0.22	NA	0.20	NA	0.18	NA	0.17
Sulfate	-	-	28.7	NA	34.0	NA	26.4	NA	21.3	NA	21.1	NA	25.0	NA	19.4
Total Dissolved Solids	-	-	297	NA	316	NA	305	NA	296	NA	273	NA	275	NA	274
Field Parameters															
Specific Conductance (µmhos/cm)	-	-	564	NA	602	NA	522	NA	476	NA	993	NA	397	NA	551
pH (S.U.)	-	-	6.75	NA	6.72	NA	6.86	NA	6.86	NA	5.00	NA	5.88	NA	6.57
Temperature (degrees C)	-	-	14.0	NA	19.1	NA	6.1	NA	15.4	NA	18.0	NA	10.7	NA	13.5
Turbidity (NTUs)	-	-	0.50	NA	14.7	NA	1.0	NA	2.2	NA	2.6	NA	5.6	NA	1.5

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = criteria maximum concentration
6. J = estimated concentration
7. B = analyte detected in method blank
8. * = LCS or LCSD is outside acceptance limits.
9. F1 = MS and/or MSD Recovery is outside acceptance limits.
10. NTU = Nephelometric Turbidity Unit

Table 6
WMDSM Crossroads Landfill
Phase 9 Wick Drain Analytical Data

Parameters **Sampling Date**	Water Quality Criteria CCC (freshwater) mg/L	Maximum Exposure Guidelines (MEGs) (mg/L)	**9WD** (Wick Drain) Unfiltered 5/23/2007	**9WD** (Wick Drain) Unfiltered 5/21/2008	**9WD** (Wick Drain) Unfiltered 5/21/2009	**9WD** (Wick Drain) Unfiltered 5/18/2010	**9WD** (Wick Drain) Unfiltered 5/9/2011	**9WD** (Wick Drain) Unfiltered 5/10/2012	**9WD** (Wick Drain) Unfiltered 4/12/2013	**9WD** (Wick Drain) Unfiltered 5/9/2014	**9WD** (Wick Drain) Unfiltered 4/30/2015	**9WD** (Wick Drain) Unfiltered 5/19/2016	**9WD** (Wick Drain) Unfiltered 6/1/2017	**9WD** (Wick Drain) Unfiltered 5/9/2018	**9WD** (Wick Drain) Unfiltered 6/17/2019
VOCs Method 8260 (mg/L)															
Toluene	-	0.6	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)
Total Xylenes	-	1	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.002)	ND (0.002)
Metals Analysis (mg/L)			**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**
Arsenic	0.15	0.010	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0056)	ND (0.0056)	ND (0.0056)	0.0077	ND (0.0056)	ND (0.0056)	ND (0.0056)	ND (0.0090)	ND (0.0090)	ND (0.0090)
Barium	-	1	0.0057	0.0160	0.0192	0.0244	0.0140	0.023	0.023	0.013	0.013	0.012	0.010	0.0063	0.0073
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.0005)	ND (0.0005)	ND (0.0005)	0.000073	0.000024	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.00050)
Calcium	-	-	49.3	52.7	47.9	49.5	47.4	85.7	56.6	43.3	50.4	50.0	51.0	60.0	58
Chromium	0.011	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.00236	0.5	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0031)	0.0012	0.0012	0.00047 J	0.00058 J	ND (0.0031)	ND (0.0031)	ND (0.002)	0.0033
Iron	1	5	ND (0.030)	0.250	0.999	0.832	0.930	5.2	1.1	0.73	0.55	0.38	0.11	0.055	0.047
Magnesium	-	-	11.7	11.5	11.5	11.8	11.5	14.0	16.6	10.6	13.5	13.0	13.0	14.0	14
Manganese	-	0.3	1.6	2.9	2.80	4.25	1.70	4.6	2.2	0.80	0.69 B	0.47	0.37	1.50	2.2
Mercury	0.00077	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.0134	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	-	-	4.7	4.7	4.48	4.70	4.60	8.3	5.0	4.1	4.5	4.9	4.8	4.9	4.6
Silver	-	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	-	20	17.2	16.7	14.1	14.0	13.2	10.6	16.6	12.1	14.3	16.0	14.0	14.0	13
Vanadium	-	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.0306	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry Analysis (mg/L)															
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	166	202	203	222	209	247	225	201	181	200	170	200	190
Alkalinity, Total (Field)	-		198	191	72	19.6	115	167	134	NA	NA	152	166	155	NA
Ca, Mg Hardness	-	-	171	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	ND (10)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	-	-	NA	1.8	2.9	2.1	1.9	2.2	2.8	2.1	2.2	1.6	1.7 B	1.6	1.3
Specific Conductance (Lab) (µmhos/cm)	-		402	316	355	378	341	571	406	360	394	390	400	480	460
Ammonia	3	30	ND (0.020)	0.33	0.328	0.104	ND (0.20)	0.21	0.22	ND (0.20)	0.12 J B *	ND (0.20)	0.23	ND (0.20)	ND (0.20)
Chloride	230	-	7.4	4.2	6.3	5.2	5.2	11.5	6.5	5.8	6.4 B F1	4.9	5.1	8.9 B	6.1
Nitrate	-	10	0.32	0.27	0.201	0.102	0.180	0.025	0.190	0.61	0.71	0.48	1.30	1.10	0.46
Sulfate	-	-	16.2	21.2	15.9	13.6	17.0	79.8	24.7	25.0	21.5	25 B	21.0	51.0	33
Total Dissolved Solids	-	-	243	216	241	235	231	361	284	211	214	220	240	280	280
Field Parameters															
Specific Conductance (µmhos/cm)	-	-	629	375	492	417	406	600	498	376	337	419	519	468	392
pH (S.U.)	-	-	6.82	6.98	5.74	6.33	6.51	6.48	6.68	6.77	7.10	6.72	6.56	6.54	6.70
Temperature (degrees C)	-	-	18.3	17.0	21.3	19.5	20.2	13.5	15.5	19.9	17.5	21.8	25.0	18.2	19.7
Turbidity (NTUs)	-	-	5.0	2.0	7.1	5.3	7.5	57.9	10.7	0.0	7.6	2.5	7.1	1.8	13.7

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = criteria maximum concentration
6. J = estimated concentration
7. B = analyte detected in method blank
8. * = LCS or LCSD is outside acceptance limits.
9. F1 = MS and/or MSD Recovery is outside acceptance limits.
10. NTU = Nephelometric Turbidity Unit

Prepared by: ERW
Checked by: AMH
Reviewed by: APTM

Table 7
WMDSM Crossroads Landfill
Phase 8A Wick Drain Analytical Data

Parameters **Sampling Date**	**Water Quality** CCC (freshwater) (mg/L)	**Maximum Exposure** Guidelines (MEGs) (mg/L)	**8AWD** (Wick Drain) Unfiltered 6/11/2003	**8AWD** (Wick Drain) Lab Filtered 6/11/2003	**8AWD** (Wick Drain) Unfiltered 8/13/2003	**8AWD** (Wick Drain) Lab Filtered 8/13/2003	**8AWD** (Wick Drain) Unfiltered 5/12/2004	**8AWD** (Wick Drain) Lab Filtered 5/12/2004	**8AWD** (Wick Drain) Unfiltered 8/10/2004	**8AWD** (Wick Drain) Lab Filtered 8/10/2004	**8AWD** (Wick Drain) Unfiltered 12/3/2004	**8AWD** (Wick Drain) Lab Filtered 12/3/2004
VOCs Method 8260 (mg/L)	-	-	ND (various)	NA	ND (various)	NA	ND (various)	NA	ND (various)	NA	ND (various)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)
Barium	-	1	0.023	0.02	0.034	0.035	ND (0.0020)	0.016	0.021	0.020	0.024	0.023
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	41.8	37.7	40.0	41.9	42.1	41.4	49.5	49.2	53.4	52.4
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	ND (0.0020)	ND (0.0020)	0.0087	0.0072	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	0.065	ND (0.030)	0.066	ND (0.030)	0.044	0.051	0.11	0.039	0.40	0.37
Lead												
Magnesium	-	-	5.9	5.2	6.9	6.8	10.9	10.8	12.8	12.6	13.5	13.2
Manganese	-	0.3	0.017	0.02	ND (0.010)	ND (0.010)	2.0	2.0	2.7	2.6	3.3	3.2
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	5.6	4.8	5.1	5.6	3.9	3.8	4.6	4.5	4.9	4.7
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	6.8	6.0	6.8	6.8	21.6	21.1	23.0	22.6	23.3	23.0
Vanadium	-	0.2	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)												
Alkalinity, Bicarbonate	-	-	105	NA	129	NA	202	NA	166	NA	203	NA
Alkalinity, Total (Lab)	-	-	105	NA	129	NA	202	NA	166	NA	203	NA
Alkalinity, Total (Field)	-		113.4	NA	192.1	NA	165	NA	169	NA	194	NA
Ca, Mg Hardness	-	-	115.54	NA	133	NA	148	NA	175	NA	185	NA
Chemical Oxygen Demand	-	-	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	NA
Total Organic Carbon	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific Conductance (Lab) (µmhos/cm)	-		295	NA	207	NA	351	NA	352	NA	158	NA
Chloride	230	-	5.5	NA	8.5	NA	8.8	NA	17.3	NA	19.3	NA
Nitrate	-	10	0.50	NA	0.76	NA	0.14	NA	0.082	NA	0.087	NA
Sulfate	-	-	27.7	NA	18.5	NA	21.5	NA	24.4	NA	29.6	NA
Total Dissolved Solids	-	-	174	NA	230	NA	207	NA	241	NA	254	NA
Field Parameters												
Specific Conductance (µmhos/cm)	-	-	300	NA	281	NA	392	NA	471	NA	472	NA
pH (S.U.)	-	-	7.03	NA	6.95	NA	6.66	NA	6.37	NA	6.63	NA
Temperature (degrees C)	-	-	18.3	NA	20.8	NA	9.2	NA	17.0	NA	5.5	NA
Turbidity (NTUs)	-	-	0	NA	2.1	NA	0.50	NA	4.5	NA	1.6	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = Criteria Maximum Concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte detected in method blank
8. F1 = MS and/or MSD Recovery is outside acceptance limits.

mg/l = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 7
WMDSM Crossroads Landfill
Phase 8A Wick Drain Analytical Data

Parameters **Sampling Date**	**Water Quality** CCC (freshwater) (mg/L)	**Maximum Exposure** Guidelines (MEGs) (mg/L)	**8AWD** (Wick Drain) Unfiltered 3/30/2005	**8AWD** (Wick Drain) Lab Filtered 3/30/2005	**8AWD** (Wick Drain) Unfiltered 8/16/2005	**8AWD** (Wick Drain) Lab Filtered 8/16/2005	**8AWD** (Wick Drain) Unfiltered 12/28/2005	**8AWD** (Wick Drain) Lab Filtered 12/28/2005	**8AWD** (Wick Drain) Unfiltered 5/16/2006	**8AWD** (Wick Drain) Unfiltered 5/23/2007	**8AWD** (Wick Drain) Unfiltered 5/21/2008	**8AWD** (Wick Drain) Unfiltered 5/21/2009	**8AWD** (Wick Drain) Unfiltered 5/18/2010
VOCs Method 8260 (mg/L)	**-**	-	ND (various)	NA	ND (various)	NA	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**
Arsenic	0.15	0.010	ND(0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.010)	ND (0.0050)	ND (0.0050)	0.0093	0.0073	0.0065
Barium	-	1	0.018	0.017	0.018	0.019	0.023	0.024	0.023	0.027	0.0310	0.0231	0.0320
Cadmium	0.00008	0.001	ND(0.00050)	ND(0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.0005)	ND (0.0005)
Calcium	-	-	41.4	40.6	46.9	46.5	52.2	54.1	53.6	54.1	63	52.6	64.6
Chromium	0.011	0.02	ND(0.010)	ND(0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	NA	NA	NA	NA	NA
Copper	0.00236	0.5	ND(0.0020)	ND(0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	0.30	0.11	0.17	0.048	0.80	0.62	0.37	1.4	7.4	5.61	7.85
Lead									13.9	13.9	13.9	NA	NA
Magnesium	-	-	11.5	11.2	12.0	11.7	12.7	13.0	13.9	13.5	15.7	14.7	17.2
Manganese	-	0.3	2.9	2.9	2.2	2.2	3.0	3.0	3.9	4.2	8.0	7.43	10.4
Mercury	0.00077	0.002	ND(0.00020)	ND(0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	NA	NA	NA	NA	NA
Nickel	0.0134	0.02	ND(0.040)	ND(0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	NA	NA	NA	NA	NA
Potassium	-	-	4.0	4.0	4.3	4.3	4.4	4.3	4.8	5.0	5.0	4.38	5.37
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	NA	NA	NA	NA	NA
Sodium	-	20	24.4	24.0	20.5	20.4	19.1	19.1	22.2	16.4	17	14.8	16.9
Vanadium	-	0.2	ND(0.025)	ND(0.040)	ND 0.025)	ND (0.040)	ND 0.025)	ND (0.040)	NA	NA	NA	NA	NA
Zinc	0.0306	2	ND(0.020)	ND(0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	NA	NA	NA	NA	NA
Wet Chemistry Analysis (mg/L)													
Alkalinity, Bicarbonate	-	-	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	178	NA	128	NA	184	NA	178	216	266	285	244
Alkalinity, Total (Field)	-		NA	NA	NA	NA	179.6	NA	NA	210	250	91	17.2
Ca, Mg Hardness	-	-	147	NA	ND (5.0)	NA	188	NA	191	191	NA	NA	NA
Chemical Oxygen Demand	-	-	ND (10)	NA	ND (10)	NA	ND (10)	NA	ND (10)	ND (10)	NA	NA	NA
Total Organic Carbon	-	-	NA	NA	NA	NA	NA	NA	NA	NA	2.7	3.2	2.3
Specific Conductance (Lab) (µmhos/cm)	-		399	NA	377	NA	385	NA	454	457	396	442	540
Chloride	230	-	9.6	NA	10.3	NA	8.1	NA	6.9	7.1	5.8	5.7	12.5
Nitrate	-	10	0.053	NA	0.20	NA	0.21	NA	0.050	0.17	ND (0.050)	ND (0.050)	0.395
Sulfate	-	-	21.7	NA	26.5	NA	34.2	NA	24.6	25.1	33.9	31.0	33.2
Total Dissolved Solids	-	-	266	NA	264	NA	257	NA	263	263	285	297	319
Field Parameters													
Specific Conductance (µmhos/cm)	-	-	365	NA	415	NA	377	NA	533	491	598	806	612
pH (S.U.)	-	-	7.10	NA	6.08	NA	5.74	NA	5.98	6.13	7.09	6.09	6.11
Temperature (degrees C)	-	-	10.5	NA	11.7	NA	8.2	NA	11.5	13.7	13.5	16.7	14.6
Turbidity (NTUs)	-	-	2.8	NA	2.6	NA	3.3	NA	2.8	2.5	9.4	14.2	8.1

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = Criteria Maximum Concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte detected in method blank
8. F1 = MS and/or MSD Recovery is outside acceptance limits.

mg/l = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 7
WMDSM Crossroads Landfill
Phase 8A Wick Drain Analytical Data

Parameters **Sampling Date**	**Water Quality** CCC (freshwater) (mg/L)	**Maximum Exposure** Guidelines (MEGs) (mg/L)	**8AWD** (Wick Drain) Unfiltered 5/9/2011	**8AWD** (Wick Drain) Unfiltered 5/10/2012	**8AWD** (Wick Drain) Unfiltered 4/12/2013	**8AWD** (Wick Drain) Unfiltered 5/9/2014	**8AWD** (Wick Drain) Unfiltered 4/30/2015	**8AWD** (Wick Drain) Unfiltered 5/19/2016	**8AWD** (Wick Drain) Unfiltered 6/1/2017	**8AWD** (Wick Drain) Unfiltered 5/9/2018	**8AWD** (Wick Drain) Unfiltered 6/17/2019
VOCs Method 8260 (mg/L)	-	-	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)	ND (various)
Metals Analysis (mg/L)			**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**	**Total Metals**
Arsenic	0.15	0.010	0.0083	ND (0.0056)	0.015	ND (0.0056)	ND (0.0056)	0.0058	ND (0.0090)	ND (0.0090)	ND (0.0090)
Barium	-	1	0.0320	0.034	0.034	0.035	0.030	0.031	0.030	0.027	0.029
Cadmium	0.00008	0.001	ND (0.0005)	0.00018	0.00013	0.00017 J	0.000077 J	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.00050)
Calcium	-	-	65.3	88.4	74.2	67.9	63.4	67.0	62.0	61.0	54
Chromium	0.011	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.00236	0.5	ND (0.0020)	0.00066	0.00095	0.00038 J	0.00041 J	ND (0.0031)	ND (0.0031)	ND (0.002)	ND (0.0031)
Iron	1	5	3.50	1.7	2.5	3.4	0.95	3.40	0.56	1.10	3.9
Lead			NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	-	-	19.5	22.3	18.0	17.1	16.2	16.0	17.0	17.0	15
Manganese	-	0.3	8.8	6.2	6.3	7.6	5.6 B	5.9	4.9	4.8	4.2
Mercury	0.00077	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.0134	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	-	-	5.60	6.4	4.9	6.1	5.2	5.6	5.3	5.1	4.8
Silver	-	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	-	20	18.9	12.4	11.7	16.9	12.3	13.0	13.0	14.0	14
Vanadium	-	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.0306	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry Analysis (mg/L)											
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	302	343	271	286	242 F1	270	240	240	200
Alkalinity, Total (Field)	-		182	259	150	NA	NA	205	238	182	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	-	-	2.1	1.5	2.6	2.5	1.9	1.6	1.4 B	2.0	2.3
Specific Conductance (Lab) (µmhos/cm)	-		451	633	467	584	461	490	480	480	450
Chloride	230	-	6.9	10.3	5.4	31.0	4.8 B	3.0	3.6 B	19 B	5.9
Nitrate	-	10	ND (0.05)	ND (0.050)	0.023	0.23	0.23	0.47	0.82	0.36	0.82
Sulfate	-	-	38.2	28.0	25.8	27.9	27.3	26 B	23	26	19
Total Dissolved Solids	-	-	328	361	326	326	252	260	270	270	260
Field Parameters											
Specific Conductance (µmhos/cm)	-	-	579	642	569	556	421	493	540	465	368
pH (S.U.)	-	-	6.38	6.18	6.35	6.48	6.88	6.34	6.11	6.08	6.53
Temperature (degrees C)	-	-	14.8	14.1	11.7	17.7	14.5	19.1	19.8	18.7	22.3
Turbidity (NTUs)	-	-	4.4	33.9	9.3	0.0	3.2	NA	3.2	14.1	136

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. - = no standard established
5. CMC = Criteria Maximum Concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte detected in method blank
8. F1 = MS and/or MSD Recovery is outside acceptance limits.

mg/l = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Prepared by: ERW
Checked by: AMH
Reviewed by: APTM

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 8/10/2004	**8BCWD** (Wick Drain) Lab Filtered 8/10/2004	**8BCWD** (Wick Drain) Unfiltered 12/3/2004	**8BCWD** (Wick Drain) Lab Filtered 12/3/2004	**8BCWD** (Wick Drain) Unfiltered 5/19/2005	**8BCWD** (Wick Drain) Lab Filtered 5/19/2005	**8BCWD** (Wick Drain) Lab Filtered 8/16/2005	**8BCWD** (Wick Drain) Lab Filtered 8/16/2005	**8BCWD** (Wick Drain) Lab Filtered 12/28/2005	**8BCWD** (Wick Drain) Lab Filtered 12/28/2005	**8BCWD** (Wick Drain) Unfiltered 5/16/2006	**8BCWD** (Wick Drain) Lab Filtered 5/16/2006	**8BCWD** (Wick Drain) Unfiltered 8/31/2006	**8BCWD** (Wick Drain) Lab Filtered 8/31/2006
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	0.020	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.0050)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	0.280	NA	0.056	NA	0.078	NA	0.071	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
2-Hexanone	-	-	0.030	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.012)	NA
Acetone	-	6	0.240	NA	0.610	NA	0.078	NA	0.059	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA
Benzene	-		ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Chloroethane	-	0.02	NA	NA	ND (0.010)	NA	0.030	NA	0.027	NA	0.017	NA	0.032	NA	0.022	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Methyl Isobutyl Ketone	-	0.5	0.016	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.012)	NA
Methylene Chloride	-	-	0.0074	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.0050)	NA	ND (0.0050)	NA
Toluene	-	0.6	0.0098	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.0050)	NA	0.0077	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.014	0.013	0.0059	ND (0.010)	0.020	0.019	0.029	0.029	0.048	0.044	0.029	0.023	0.044	0.041
Barium	-	1	0.062	0.052	0.037	0.025	0.059	0.056	0.067	0.070	0.091	0.086	0.068	0.068	0.074	0.075
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	172	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	128	131	45.5	44.8	72.3	68.0	87.3	90.1	112.0	118.0	73.4	73.0	81.6	86.5
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	0.034	0.026	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	0.0042	ND (0.0020)	0.0068	0.0026	0.047	0.0086	ND (0.0020)	ND (0.0020)	0.0034	ND (0.0020)	0.0028	ND (0.0020)	0.0023	ND (0.0020)
Iron	1	5	14.9	10.9	3.6	0.38	14.4	13.9	24.6	24.9	36.1	35.0	31.6	31.1	35.2	33.5
Magnesium	-	-	35.6	35.6	13.4	12.5	22.4	21.2	32.6	33.3	40.0	42.0	29.8	29.6	31.3	32.6
Manganese	-	0.3	11.7	12.0	0.71	0.64	11.2	10.5	19.9	20.1	19.7	23.1	26.4	26.9	21.4	21.4
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	0.040	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	13.0	13.0	16.6	16.2	8.9	8.3	10.3	10.5	14.1	13.9	7.4	7.6	9.9	10.1
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	80.2	81.9	49.8	49.4	51.2	48.0	64.7	65.9	84.0	85.8	59.7	58.9	60.7	64.3
Vanadium	-	0.2	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	492	NA	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	492	NA	148	NA	270	NA	412	NA	396	NA	325	NA	252	NA
Alkalinity, Total (Field)	-		384	NA	79	NA	NA	NA	NA	NA	231.2	NA	NA	NA	378.4	NA
Ca, Mg Hardness	-	-	474	NA	163	NA	257	NA	ND (5.0)	NA	468	NA	304	NA	350	NA
Chemical Oxygen Demand	-	-	197	NA	276	NA	68.6	NA	63.3	NA	42.3	NA	45.5	NA	46.9	NA
Total Organic Carbon	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific Conductance (Lab) (µmhos/cm)	-		1060	NA	680	NA	761	NA	1000	NA	1230	NA	995	NA	1050	NA
Ammonia	3	30	1.4	NA	19.2	NA	1.5	NA	1.5	NA	1.8	NA	1.1	NA	1.4	NA
Chloride	230	-	107	NA	58.4	NA	62.3	NA	92.0	NA	100.0	NA	84.8	NA	81.8	NA
Nitrate	-	10	0.25	NA	0.44	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	NA	NA	0.096	NA
Sulfate	-	-	48.2	NA	85.1	NA	31.6	NA	13.7	NA	10.6	NA	24.4	NA	21.1	NA
Total Dissolved Solids	-	-	764	NA	396	NA	454	NA	621	NA	779	NA	559	NA	593	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	1238	NA	666	NA	784	NA	465	NA	909	NA	-54.0	NA	858	NA
pH (S.U.)		-	6.78	NA	7.20	NA	6.41	NA	5.98	NA	5.30	NA	6.51	NA	6.24	NA
Temperature (degrees C)		-	19.3	NA	4.7	NA	15.7	NA	16.9	NA	9.0	NA	11.5	NA	19.7	NA
Turbidity (NTUs)		-	63.9	NA	70.7	NA	41.0	NA	1.2	NA	31.2	NA	10.3	NA	25	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 12/14/2006	**8BCWD** (Wick Drain) Lab Filtered 12/14/2006	**8BCWD** (Wick Drain) Unfiltered 5/23/2007	**8BCWD** (Wick Drain) Lab Filtered 5/23/2007	**8BCWD** (Wick Drain) Unfiltered 8/17/2007	**8BCWD** (Wick Drain) Lab Filtered 8/17/2007	**8BCWD** (Wick Drain) Unfiltered 12/14/2007	**8BCWD** (Wick Drain) Lab Filtered 12/14/2007	**8BCWD** (Wick Drain) Unfiltered 5/21/2008	**8BCWD** (Wick Drain) Lab Filtered 5/21/2008	**8BCWD** (Wick Drain) Unfiltered 8/29/2008	**8BCWD** (Wick Drain) Lab Filtered 8/29/2008	**8BCWD** (Wick Drain) Unfiltered 12/11/2008	**8BCWD** (Wick Drain) Lab Filtered 12/11/2008
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Acetone	-	6	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA
Benzene	-		ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Chloroethane	-	0.02	0.054	NA	0.023	NA	ND (0.010)	NA	0.011	NA	0.035	NA	0.027	NA	ND (0.010)	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Methyl Isobutyl Ketone	-	0.5	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Methylene Chloride	-	-	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Toluene	-	0.6	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.051	0.048	0.059	0.047	0.0089	0.010	0.046	0.044	0.073	0.067	0.041	0.039	0.030	0.025
Barium	-	1	0.088	0.086	0.077	0.086	0.038	0.033	0.070	0.058	0.11	0.11	0.074	0.077	0.063	0.061
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	80.6	78.2	91.1	92.3	28.3	25.5	54.4	54.6	81.7	79.7	54.6	53.6	45.6	43.2
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.010	ND (0.0020)	0.0025	ND (0.0020)	0.0022	ND (0.0020)	0.002	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	37.6	36.1	38.7	35.3	12.7	11.3	39.3	38.5	48.6	47.0	28.8	28.0	35.8	32.4
Magnesium	-	-	32.3	31.5	34.2	35.2	12.8	11.1	19.5	19.8	38.7	37.6	26.3	25.8	21.2	19.7
Manganese	-	0.3	24.7	24.0	15.7	16.0	11.0	9.6	15.4	15.1	31.4	30.9	19.4	19.5	20.3	18.8
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	9.8	9.4	13.6	14.0	7.4	6.4	6.0	5.7	12.4	11.8	10.6	9.6	7.1	6.1
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	0.00040	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	66.4	63.8	67.6	68.2	18.0	15.8	27.4	27.0	74.6	75.2	53.5	54.5	34.8	31.3
Vanadium	-	0.2	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.040)	ND (0.025)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	0.025	0.024	ND (0.00020)	ND (0.00020)
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	411	NA	460	NA	134	NA	246	NA	425	NA	112	NA	124	NA
Alkalinity, Total (Field)	-		346	NA	491	NA	128	NA	NA	NA	311	NA	284	NA	220	NA
Ca, Mg Hardness	-	-	325	NA	375	NA	109	NA	280	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	42.9	NA	48.5	NA	27.5	NA	24.2	NA	54.8	NA	43.9	NA	32.6	NA
Total Organic Carbon	-	-	NA	NA	NA	NA	NA	NA	NA	NA	17.8	NA	12.6	NA	8.8	NA
Specific Conductance (Lab) (µmhos/cm)	-		1050	NA	1060	NA	395	NA	603	NA	812	NA	830	NA	621	NA
Ammonia	3	30	1.5	NA	2.4	NA	1.8	NA	1.4	NA	2.6	NA	4.4	NA	4.3	NA
Chloride	230	-	80.0	NA	72.0	NA	39.4	NA	33.7	NA	101	NA	89.8	NA	47.1	NA
Nitrate	-	10	ND (0.050)	NA	0.061	NA	ND (0.050)	NA	ND (0.005)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
Sulfate	-	-	22.5	NA	17.9	NA	16.8	NA	11.8	NA	27.7	NA	11.8	NA	17.7	NA
Total Dissolved Solids	-	-	669	NA	610	NA	223	NA	448	NA	705	NA	501	NA	333	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	1207	NA	1154	NA	813	NA	654	NA	1345	NA	1454	NA	1137	NA
pH (S.U.)		-	6.28	NA	6.17	NA	6.94	NA	6.29	NA	7.23	NA	6.11	NA	5.22	NA
Temperature (degrees C)		-	10.2	NA	15.8	NA	16.4	NA	10.3	NA	14.5	NA	18.5	NA	12.7	NA
Turbidity (NTUs)		-	11.4	NA	26.0	NA	10.5	NA	7.4	NA	22.1	NA	14.6	NA	23.8	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 5/21/2009	**8BCWD** (Wick Drain) Lab Filtered 5/21/2009	**8BCWD** (Wick Drain) Unfiltered 9/8/2009	**8BCWD** (Wick Drain) Lab Filtered 9/8/2009	**8BCWD** (Wick Drain) Unfiltered 11/12/2009	**8BCWD** (Wick Drain) Lab Filtered 11/12/2009	**8BCWD** (Wick Drain) Unfiltered 5/18/2010	**8BCWD** (Wick Drain) Lab Filtered 5/18/2010	**8BCWD** (Wick Drain) Unfiltered 8/12/2010	**8BCWD** (Wick Drain) Lab Filtered 8/12/2010	**8BCWD** (Wick Drain) Unfiltered 11/8/2010	**8BCWD** (Wick Drain) Lab Filtered 11/8/2010	**8BCWD** (Wick Drain) Unfiltered 5/9/2011	**8BCWD** (Wick Drain) Lab Filtered 5/9/2011
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Acetone	-	6	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA
Benzene	-		ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Chloroethane	-	0.02	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	0.013	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.001)	NA	ND (0.001)	NA	ND (0.001)	NA	ND (0.001)	NA
Methyl Isobutyl Ketone	-	0.5	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Methylene Chloride	-	-	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Toluene	-	0.6	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.0170	0.0202	0.0225	0.0189	0.0278	0.0252	0.0756	0.0721	0.0785	0.0784	0.0480	0.0358	0.1700	0.1700
Barium	-	1	0.0413	0.0454	0.0427	0.0439	0.0312	0.0325	0.0625	0.0606	0.0831	0.0813	0.0782	0.0745	0.1200	0.1200
Cadmium	0.00008	0.001	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)
Calcium	-	-	40.2	44.4	43.1	44.3	31.4	33.6	64.9	66.6	74.5	74.8	50.1	53.5	75.2	73.2
Chromium	0.011	0.02	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)
Copper	0.00236	0.5	0.0024	0.0023	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0026	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	27.8	30.2	30.8	31.3	20.6	21.3	44.9	46.2	64.8	63.5	69.3	64.4	60.8	57.6
Magnesium	-	-	20.9	23.0	22.3	23.0	12.7	13.8	23.1	23.4	32.1	31.6	26.1	25.9	40.6	40.2
Manganese	-	0.3	17.9	21.0	18.7	19.0	8.26	8.91	12.8	13.3	21.9	22.6	23.8	23.6	14.3	14.5
Mercury	0.00077	0.002	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)
Nickel	0.0134	0.02	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)
Potassium	-	-	2.68	2.95	3.26	3.32	2.71	2.94	6.34	6.43	7.94	7.08	6.38	6.28	16.20	16.20
Silver	-	0.04	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)
Sodium	-	20	23.0	25.4	24.1	24.5	15.0	15.8	42.7	43.4	57.8	57.3	47.3	47.0	106	106
Vanadium	-	0.2	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.0400)	ND (0.0400)
Zinc	0.0306	2	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	0.0260	ND (0.0200)	ND (0.0200)
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	222	NA	177	NA	86.8	NA	110	NA	208	NA	282	NA	501	NA
Alkalinity, Total (Field)	-		88	NA	21.4	NA	17.8	NA	30.3	NA	376	NA	276	NA	342	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	ND (10.0)	NA	29.1	NA	13.1	NA	30.3	NA	36.7	NA	43.5	NA	68.1	NA
Total Organic Carbon	-	-	7.2	NA	8.1	NA	4.6	NA	4.8	NA	14.8	NA	7.0	NA	21.1	NA
Specific Conductance (Lab) (µmhos/cm)	-		473	NA	559	NA	381	NA	809	NA	971	NA	766	NA	1240	NA
Ammonia	3	30	1.01	NA	514	NA	1.37	NA	1.74	NA	ND (10)	NA	1.56	NA	7	NA
Chloride	230	-	35.1	NA	32.9	NA	19.2	NA	48.7	NA	63.7	NA	70.7	NA	145	NA
Nitrate	-	10	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
Sulfate	-	-	23.6	NA	16.9	NA	12.2	NA	16.3	NA	14.3	NA	8.13	NA	3.5	NA
Total Dissolved Solids	-	-	350	NA	303	NA	223	NA	476	NA	544	NA	478	NA	759	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	651	NA	697	NA	741	NA	897	NA	1,137	NA	910	NA	1412	NA
pH (S.U.)		-	5.09	NA	6.10	NA	7.50	NA	6.19	NA	6.18	NA	5.14	NA	6.27	NA
Temperature (degrees C)		-	19.1	NA	20.5	NA	15.3	NA	18.3	NA	21.1	NA	14.8	NA	18.7	NA
Turbidity (NTUs)		-	6.2	NA	8.1	NA	16.3	NA	6.7	NA	7.3	NA	14.2	NA	17.4	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 8/11/2011	**8BCWD** (Wick Drain) Lab Filtered 8/11/2011	**8BCWD** (Wick Drain) Unfiltered 11/10/2011	**8BCWD** (Wick Drain) Lab Filtered 11/10/2011	**8BCWD** (Wick Drain) Unfiltered 5/10/2012	**8BCWD** (Wick Drain) Lab Filtered 5/10/2012	**8BCWD** (Wick Drain) Unfiltered 8/17/2012	**8BCWD** (Wick Drain) Lab Filtered 8/17/2012	**8BCWD** (Wick Drain) Unfiltered 11/13/2012	**8BCWD** (Wick Drain) Lab Filtered 11/13/2012	**8BCWD** (Wick Drain) Unfiltered 4/12/2013	**8BCWD** (Wick Drain) Lab Filtered 4/12/2013	**8BCWD** (Wick Drain) Unfiltered 8/13/2013	**8BCWD** (Wick Drain) Lab Filtered 8/13/2013
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.050)	NA	ND (0.050)	NA	0.0014	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Acetone	-	6	ND (0.034)	NA	ND (0.034)	NA	0.0099	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	0.0036	NA
Benzene	-		ND (0.005)	NA	ND (0.005)	NA	0.0011 J	NA	0.0021 J	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Chloroethane	-	0.02	0.020	NA	ND (0.010)	NA	0.011	NA	0.015	NA	ND (0.010)	NA	ND (0.010)	NA	0.00094	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.001)	NA	ND (0.001)	NA	ND (0.001)	NA	0.0009 J	NA	ND (0.001)	NA	ND (0.001)	NA	ND (0.001)	NA
Methyl Isobutyl Ketone	-	0.5	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Methylene Chloride	-	-	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Toluene	-	0.6	ND (0.005)	NA	ND (0.005)	NA	0.0023	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.1400	0.1100	0.1500	0.1200	0.029	0.025	0.110	0.110	0.180	0.160	0.014	ND (0.010)	0.024	0.018
Barium	-	1	0.1400	0.1200	0.1200	0.1200	0.054	0.051	0.130	0.120	0.120	0.120	0.029	0.027	0.039	0.038
Cadmium	0.00008	0.001	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.00050)	ND (0.00050)	0.000056	0.00031	ND (0.00050)	0.000025	0.000068	0.000048	0.000088	ND (0.00050)
Calcium	-	-	76.8	78.3	70.7	67.3	31.6	32.1	61.8	61.5	62.5	67.2	23.2	22.2	33.1	32.9
Chromium	0.011	0.02	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	0.0017	ND (0.010)	0.0026	0.0019	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.0027	0.0028
Copper	0.00236	0.5	0.0024	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0020	0.00094	0.0061	0.0051	0.0020	0.0013	0.0012	0.00028	0.0015	0.00024
Iron	1	5	66.9	71.4	61.3	57.0	64.6	64.9	86.7	88.0	60.8	63.7	35.3	32.9	47.6	47.0
Magnesium	-	-	45.2	43.3	41.5	42.1	21.6	21.6	41.6	41.1	42.8	41.8	17.0	16.5	19.1	19.1
Manganese	-	0.3	18.0	17.6	15.2	15.3	15.1	15.5	17.9	18.6	10.3	10.7	10.8	10.3	10.2	10.2
Mercury	0.00077	0.002	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	0.0099	0.011	0.014	0.014	0.016	0.016	0.0033	0.0031	0.0022	0.0018
Potassium	-	-	17.4	17.9	16.2	16.3	3.9	3.9	13.5	12.7	16.3	15.6	2.1	2.0	2.8	2.7
Silver	-	0.04	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.0002)	ND (0.00020)	0.000014	ND (0.00020)	ND (0.00020)	ND (0.00020)	0.000016	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	113	118	103	104	30.9	30.9	97.7	94.9	109	109	16.1	15.5	21.3	20.5
Vanadium	-	0.2	ND (0.0250)	ND (0.0400)	ND (0.0250)	ND (0.0400)	ND (0.025)	ND (0.040)	0.031	0.023	0.002	0.0059	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	0.018	0.025	0.014	0.011	0.011	0.011	0.0110	0.0068	0.0058	0.0054
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	427	NA	480	NA	259	NA	335	NA	440	NA	149	NA	50.7	NA
Alkalinity, Total (Field)	-		545	NA	545	NA	229	NA	NA	NA	340	NA	111	NA	NA	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	71.4	NA	71.8	NA	37.6	NA	77.7	NA	55.3	NA	32.9	NA	24.4	NA
Total Organic Carbon	-	-	20.0	NA	19.3	NA	8.8	NA	18.3	NA	17.8	NA	5.4	NA	5.2	NA
Specific Conductance (Lab) (µmhos/cm)	-		1260	NA	1310	NA	518	NA	1260	NA	1180	NA	325	NA	568	NA
Ammonia	3	30	7.0	NA	7.4	NA	1.4	NA	5.6	NA	7.0	NA	0.89	NA	1.10	NA
Chloride	230	-	129	NA	124	NA	39.1	NA	116	NA	115	NA	22.4	NA	29.9	NA
Nitrate	-	10	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	0.033	NA	0.047	NA	0.023	NA	0.050	NA
Sulfate	-	-	ND (1.5)	NA	4.0	NA	17.5	NA	20.5	NA	7.1	NA	ND (1.5)	NA	6.2	NA
Total Dissolved Solids	-	-	798	NA	703	NA	364	NA	701	NA	672	NA	226	NA	317	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	1832	NA	1664	NA	734	NA	1472	NA	1354	NA	463	NA	626	NA
pH (S.U.)		-	6.24	NA	6.28	NA	5.74	NA	6.59	NA	6.33	NA	6.27	NA	6.28	NA
Temperature (degrees C)		-	21.4	NA	18.4	NA	14.5	NA	21.9	NA	15.5	NA	12.3	NA	18.1	NA
Turbidity (NTUs)		-	29.0	NA	31.4	NA	20.5	NA	34.9	NA	24.4	NA	30.3	NA	21.6	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 11/12/2013	**8BCWD** (Wick Drain) Lab Filtered 11/12/2013	**8BCWD** (Wick Drain) Unfiltered 5/9/2014	**8BCWD** (Wick Drain) Lab Filtered 5/9/2014	**8BCWD** (Wick Drain) Unfiltered 8/20/2014	**8BCWD** (Wick Drain) Lab Filtered 8/20/2014	**8BCWD** (Wick Drain) Unfiltered 11/20/2014	**8BCWD** (Wick Drain) Lab Filtered 11/20/2014	**8BCWD** (Wick Drain) Unfiltered 5/19/2015	**8BCWD** (Wick Drain) Lab Filtered 5/19/2015	**8BCWD** (Wick Drain) Unfiltered 8/19/2015	**8BCWD** (Wick Drain) Lab Filtered 8/19/2015	**8BCWD** (Wick Drain) Unfiltered 11/19/2015	**8BCWD** (Wick Drain) Lab Filtered 11/19/2015
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	0.00067 J	NA	ND (0.005)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Acetone	-	6	ND (0.034)	NA	0.004 J	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	0.0048 J	NA	ND (0.034)	NA
Benzene	-		ND (0.005)	NA	0.0025 J	NA	NA	NA	0.0021 J	NA	0.00046 J	NA	0.0029 J	NA	ND (0.005)	NA
Chloroethane	-	0.02	0.0014	NA	0.0073 J	NA	0.0027 J	NA	0.0027 J	NA	0.014	NA	0.014	NA	0.012	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.001)	NA	0.00092 J	NA	0.0016	NA	ND (0.001)	NA	ND (0.001)	NA	0.0015	NA	ND (0.001)	NA
Methyl Isobutyl Ketone	-	0.5	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA
Methylene Chloride	-	-	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	0.00050 J	NA	ND (0.005)	NA
Toluene	-	0.6	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	0.00058 J	NA	ND (0.005)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.037	0.035	0.22	0.220	0.05	0.051	0.19	0.190	0.01	0.0058 J	0.26	0.260	0.26	0.300
Barium	-	1	0.066	0.068	0.12	0.120	0.08	0.083	0.13	0.120	0.05	0.050	0.12	0.130	0.11	0.120
Cadmium	0.00008	0.001	0.00024	0.00014	0.000081 J	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00014 J	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	54.6	54.8	72.6	73.4	39.6	41.2	71.2	71.5 B	54.5	56.9	70.1 B	69.1 B	67.0	73.0
Chromium	0.011	0.02	ND (0.010)	0.0030	0.0017 J	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.0035 J	ND (0.010)	0.0011 J	ND (0.010)	0.0017 J	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	0.00130	0.00055	0.0015 J	0.0013 J	0.0010 JB	0.00068 J	0.00200	0.00270	0.0017 J	0.0016 J	0.0015 J	0.0016 JB	ND (0.0020)	ND (0.0020)
Iron	1	5	72.5	70.3	60.2	61.1	81.2	81.6	57.2	53.2 B	1.3	1.3	63.0	62.5	43.0	46.0
Magnesium	-	-	30.9	31.7	40.4	38.8	28.4	29.0	44.3	40.0	36.3	37.1	43.1	43.7	37.0	41.0
Manganese	-	0.3	14.0	14.2	6.3	6.3	11.9 B	11.8 B	7.4	6.6	3.3 B	3.5 B	6.1 B	6.1	0.9	1.0
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	0.0134	0.02	0.0024	0.0035	0.013 J	0.014 J	0.0056 J	0.0066 J	0.013 J	0.012 J	0.0094 J	0.010 J	0.017 J	0.013 J	ND (0.040)	ND (0.040)
Potassium	-	-	4.1	4.2	16.0	16.2	5.3	5.6	16.8	16.2	16.8	17.5	17.7 B	17.4	19.0	20.0
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	33.9	33.9	105	106.0	48	49.9	103	93.9	83	90.9	104	102.0	95	110.0
Vanadium	-	0.2	0.0026	0.0021	ND (0.025)	ND (0.040)	ND (0.025)	0.0027 J	0.0020 J	0.0028 J	ND (0.025)	ND (0.040)	ND (0.025)	0.0022 J	ND (0.025)	ND (0.040)
Zinc	0.0306	2	0.0210	0.0210	ND (0.020)	0.0019 J	0.0056 J	0.0082 J	0.016 JB	0.0082 JB	0.0065 JB	0.0047 J	0.0026 J	0.0038 J^	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	286	NA	492	NA	314	NA	497 B	NA	397	NA	478 B	NA	510	NA
Alkalinity, Total (Field)	-		202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	33.6	NA	70.6	NA	45.4	NA	56.1	NA	46.5	NA	70.1	NA	77	NA
Total Organic Carbon	-	-	8.5	NA	19.0	NA	10.7	NA	18.6	NA	14.7	NA	21.0 B	NA	25.0	NA
Specific Conductance (Lab) (µmhos/cm)	-		752	NA	1,230	NA	687	NA	1,150	NA	992	NA	1,170	NA	1,100	NA
Ammonia	3	30	1.90	NA	6.3 B	NA	3.30	NA	8.3 B	NA	7.1 F1	NA	5.20	NA	9.90	NA
Chloride	230	-	42.6	NA	117	NA	59.1	NA	99.8	NA	92.4 B	NA	99.7	NA	110	NA
Nitrate	-	10	0.048	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	0.046 J	NA	ND (0.050)	NA	ND (0.050)	NA
Sulfate	-	-	1.5	NA	ND (1.5)	NA	1.6	NA	ND (1.5)	NA	ND (1.5)	NA	2.2 B	NA	1.7 B	NA
Total Dissolved Solids	-	-	426	NA	710	NA	467	NA	644	NA	533	NA	683	NA	640	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	878	NA	1,410	NA	884	NA	1,110	NA	836	NA	1,180	NA	875	NA
pH (S.U.)		-	6.49	NA	6.46	NA	5.45	NA	6.24	NA	7.08	NA	6.23	NA	6.31	NA
Temperature (degrees C)		-	13.0	NA	17.9	NA	18.4	NA	14.0	NA	13.0	NA	28.1	NA	13.0	NA
Turbidity (NTUs)		-	8.1	NA	5.4	NA	0	NA	116	NA	11.2	NA	0	NA	15	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 5/19/2016	**8BCWD** (Wick Drain) Lab Filtered 5/19/2016	**8BCWD** (Wick Drain) Unfiltered 8/24/2016	**8BCWD** (Wick Drain) Lab Filtered 8/24/2016	**8BCWD** (Wick Drain) Unfiltered 11/15/2016	**8BCWD** (Wick Drain) Lab Filtered 11/15/2016	**8BCWD** (Wick Drain) Unfiltered 6/1/2017	**8BCWD** (Wick Drain) Lab Filtered 6/1/2017	**8BCWD** (Wick Drain) Unfiltered 8/31/2017	**8BCWD** (Wick Drain) Lab Filtered 8/31/2017	**8BCWD** (Wick Drain) Unfiltered 11/16/2017	**8BCWD** (Wick Drain) Lab Filtered 11/16/2017	**8BCWD** (Wick Drain) Unfiltered 5/9/2018	**8BCWD** (Wick Drain) Lab Filtered 5/9/2018
VOCs Method 8260 (mg/L)																
1,1-Dichloroethane	-	0.06	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.05)	NA	ND (0.010)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.05)	NA	ND (0.5)	NA	ND (0.100)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.10)	NA	ND (0.050)	NA
Acetone	-	6	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.034)	NA	ND (0.34)	NA	ND (0.100)	NA
Benzene	-		ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.050)	NA	ND (0.050)	NA	ND (0.010)	NA
Chloroethane	-	0.02	0.01	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.10)	NA	ND (0.010)	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.001)	NA	ND (0.001)	NA	ND (0.001)	NA	ND (0.010)	NA	ND (0.001)	NA	ND (0.01)	NA	ND (0.010)	NA
Methyl Isobutyl Ketone	-	0.5	ND (0.010)	NA	ND (0.010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	-	-	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.05)	NA	ND (0.010)	NA
Toluene	-	0.6	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.005)	NA	ND (0.05)	NA	ND (0.010)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.29	0.290	0.27	0.250	0.340	0.160	0.43	0.200	0.26	0.24	0.28	0.28	0.24	0.34
Barium	-	1	0.11	0.110	0.10	0.095	0.120	0.110	0.11	0.087	0.11	0.10	0.11	0.11	0.094	0.087
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	63.0	67.0	62.0	61.0	68.0	68.0	52.0	54.0	61	60	63	65	48	44
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.02400	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0025
Iron	1	5	43.0	45.0	42.0	40.0	45.0	39.0	65.0	41 B	54	51	45 BL	47 BL	41	44
Magnesium	-	-	39.0	39.0	36.0	36.0	39.0	40.0	31.0	32.0	35	35	36	38	28	25
Manganese	-	0.3	2.8	2.8	2.3	2.3	2.3	2.3	2.9	2.9	3.3	3.3	2.2	2.3	2.1	1.9
Mercury	0.00077	0.002	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	NA	NA
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	19.0	18.0	16.0	16.0	21.0	20.0	14.0	13.0	15	14	16	18	13	12
Silver	-	0.04	ND (0.0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	93	96.0	86	84.0	100.0	100.0	68	68.0	77	77	83	89	63	58
Vanadium	-	0.2	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)																
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	480	NA	380	NA	350	NA	350	NA	480	NA	350	NA	310	NA
Alkalinity, Total (Field)	-		477	NA	375	NA	376	NA	408	NA	408	NA	452	NA	301	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	57	NA	51	NA	62	NA	48	NA	61	NA	67	NA	52	NA
Total Organic Carbon	-	-	19.0	NA	18.0	NA	21	NA	14 B	NA	17	NA	18	NA	13	NA
Specific Conductance (Lab) (µmhos/cm)	-		1,100	NA	1,100	NA	1200	NA	920	NA	980	NA	1100	NA	810	NA
Ammonia	3	30	9.50	NA	8.80	NA	11	NA	7.30	NA	8.2	NA	11	NA	6.8	NA
Chloride	230	-	91	NA	80	NA	96	NA	67 B	NA	78	NA	87 B	NA	63 B	NA
Nitrate	-	10	ND (0.050)	NA	ND (0.050)	NA	ND (0.050)	NA	0.063	NA	ND(0.050)	NA	ND(0.050)	NA	ND(0.050)	NA
Sulfate	-	-	2.8 B	NA	ND (1.5)	NA	ND (5.0)	NA	ND (5.0)	NA	ND(5.0)	NA	ND(5.0)	NA	ND(5.0)	NA
Total Dissolved Solids	-	-	560	NA	560	NA	620	NA	470	NA	560	NA	580	NA	440	NA
Field Parameters																
Specific Conductance (µmhos/cm)		-	1,172	NA	1,213	NA	1419	NA	1,976	NA	1113	NA	1128	NA	884	NA
pH (S.U.)		-	6.3	NA	6.28	NA	6.49	NA	6.42	NA	6.35	NA	6.42	NA	6.28	NA
Temperature (degrees C)		-	22.4	NA	23.6	NA	16	NA	24.2	NA	21.2	NA	12.7	NA	23.6	NA
Turbidity (NTUs)		-	10.2	NA	7.5	NA	52.3	NA	20.1	NA	3.3	NA	9.4	NA	5.4	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Table 8
WMDSM Crossroads Landfill
Phase 8BC Wick Drain Analytical Data

Parameters Sampling Date	**Water Quality Criteria CCC (freshwater)** (mg/L)	**Maximum Exposure Guidelines (MEGs)** (mg/L)	**8BCWD** (Wick Drain) Unfiltered 9/5/2018	**8BCWD** (Wick Drain) Lab Filtered 9/5/2018	**8BCWD** (Wick Drain) Unfiltered 11/27/2018	**8BCWD** (Wick Drain) Lab Filtered 11/27/2018	**8BCWD** (Wick Drain) Unfiltered 6/17/2019	**8BCWD** (Wick Drain) Lab Filtered 6/17/2019	**8BCWD** (Wick Drain) Unfiltered 8/30/2019	**8BCWD** (Wick Drain) Lab Filtered 8/30/2019	**8BCWD** (Wick Drain) Unfiltered 11/20/2019	**8BCWD** (Wick Drain) Lab Filtered 11/20/2019
VOCs Method 8260 (mg/L)												
1,1-Dichloroethane	-	0.06	ND (0.002)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.004)	NA	ND (0.004)	NA
2-Butanone (Methyl Ethyl Ketone)	-	4	ND (0.020)	NA	ND (0.100)	NA	ND (0.010)	NA	ND (0.040)	NA	ND (0.040)	NA
2-Hexanone	-	-	ND (0.010)	NA	ND (0.050)	NA	ND (0.005)	NA	ND (0.020)	NA	ND (0.020)	NA
Acetone	-	6	ND (0.020)	NA	ND (0.100)	NA	ND (0.010)	NA	ND (0.004)	NA	ND (0.004)	NA
Benzene	-		0.0023	NA	ND (0.010)	NA	0.0015	NA	ND (0.004)	NA	ND (0.004)	NA
Chloroethane	-	0.02	0.002	NA	ND (0.010)	NA	0.0034	NA	0.0079	NA	0.0046	NA
cis-1,2-Dichloroethene	-	0.01	ND (0.002)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.004)	NA	ND (0.004)	NA
Methyl Isobutyl Ketone	-	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	-	-	ND (0.002)	NA	ND (0.010)	NA	ND (0.010)	NA	0.0065	NA	ND (0.004)	NA
Toluene	-	0.6	ND (0.002)	NA	ND (0.010)	NA	ND (0.010)	NA	ND (0.004)	NA	ND (0.004)	NA
Metals Analysis (mg/L)			**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**	**Total Metals**	**Dissolved**
Arsenic	0.15	0.010	0.17	0.19	1.7	0.10	0.012	0.013	0.65	0.010	0.31	0.35
Barium	-	1	0.065	0.073	0.23	0.048	0.100	0.1	0.160	0.068	0.099	0.11
Cadmium	0.00008	0.001	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Calcium	-	-	36	41	30	24	60	61	58	55	61	65
Chromium	0.011	0.02	ND (0.010)	ND (0.010)	0.026	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Copper	0.00236	0.5	0.0023	ND (0.0020)	0.031	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0053	ND (0.0020)	ND (0.0020)	ND (0.0020)
Iron	1	5	26	29	270	27	14	13	78	2.0	38	40
Magnesium	-	-	21	23	19	13	30	31	33	32	30	32
Manganese	-	0.3	1.4	1.6	2.7	2.5	1.7	1.8	1.6	1.5	1.7	1.9
Mercury	0.00077	0.002	NA	NA	NA	NA	NA	NA	ND (0.00020)	NA	NA	NA
Nickel	0.0134	0.02	ND (0.040)	ND (0.040)	0.075	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)
Potassium	-	-	10	11	9.5	5.2	17	17	17	16	15	16
Silver	-	0.04	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Sodium	-	20	50	55	29	25	71	73	72	72 B	69	73
Vanadium	-	0.2	ND (0.040)	ND (0.040)	0.032	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)	ND (0.025)	ND (0.040)
Zinc	0.0306	2	ND (0.020)	ND (0.020)	0.073	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Wet Chemistry Analysis (mg/L)												
Alkalinity, Bicarbonate	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Total (Lab)	-	-	260	NA	160	NA	370	NA	420	NA	410	NA
Alkalinity, Total (Field)	-		242	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ca, Mg Hardness	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand	-	-	32	NA	890	NA	71	NA	120	NA	56	NA
Total Organic Carbon	-	-	11	NA	9.6	NA	15	NA	12	NA	18	NA
Specific Conductance (Lab) (µmhos/cm)	-		730	NA	390	NA	930	NA	1000	NA	960	NA
Ammonia	3	30	8.2	NA	7.7	NA	8.8	NA	12	NA	8.1	NA
Chloride	230	-	51	NA	25	NA	64 B	NA	72	NA	62	NA
Nitrate	-	10	0.082	NA	ND(0.050)	NA	ND (0.050)	NA	0.061	NA	0.056	NA
Sulfate	-	-	ND(5.0)	NA	ND(5.0)	NA	15	NA	ND (5.0)	NA	ND (5.0)	NA
Total Dissolved Solids	-	-	400	NA	230	NA	520	NA	510	NA	620	NA
Field Parameters												
Specific Conductance (µmhos/cm)		-	769	NA	445	NA	809	NA	1060	NA	998	NA
pH (S.U.)		-	6.29	NA	5.67	NA	6.29	NA	6.19	NA	6.21	NA
Temperature (degrees C)		-	23.9	NA	12.5	NA	22.3	NA	25.4	NA	17.1	NA
Turbidity (NTUs)		-	7.7	NA	179	NA	31.6	NA	0.0	NA	4.8	NA

Notes:
1. NA = not analyzed for parameter
2. ND () = not detected at indicated laboratory detection limit
3. VOCs = volatile organic compounds
4. "-" = no standard established
5. CCC = criterion continuous concentration
6. J = analyte detected below the reporting limit, estimated concentration given
7. B = analyte was also detected in the associated method blank

mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µmhos/cm = micromhos per centimeter
S.U. = Standard Units

Prepared by: ERW
Checked by: AMH
Reviewed by: APTM

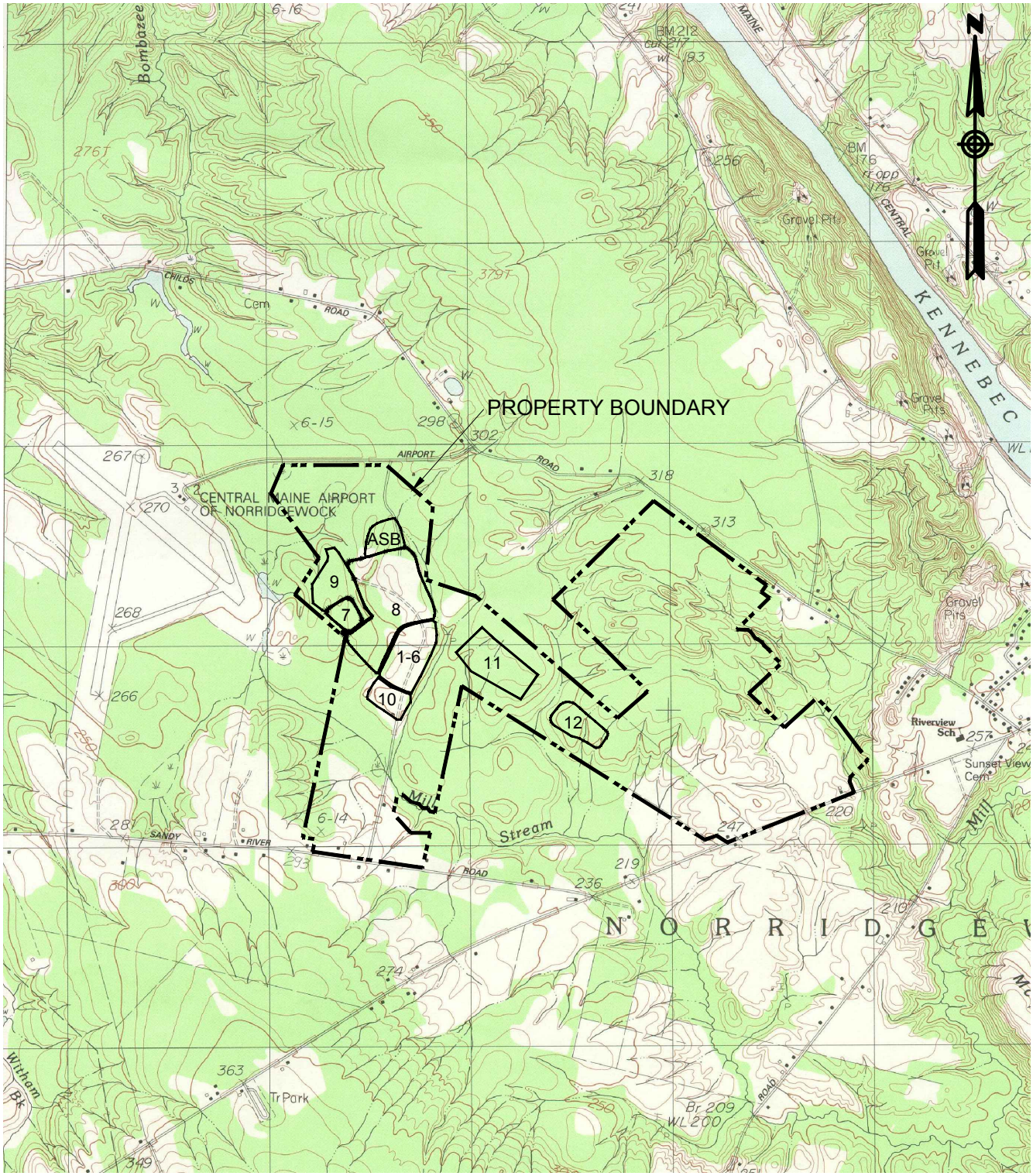
Table 9
WMDSM Crossroads Landfill
Summary of Mann-Kendall Trend Analysis

	Hydrostratigraphic Unit	Alkalinity	Arsenic	Barium	Calcium	Chloride	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Nitrogen, Nitrate	pH	Potassium	Sodium	Specific Conductance	Sulfate	TDS	TOC	Well Totals	
Upgradient- Phase 1-10																				**Total Increasing**	**Total Decreasing**
310AW	Phreatic					+						+		-		+				3	1
617A	Phreatic										-									0	1
310C	Till				+	+						+				+		+		5	0
310D	Bedrock						+									+		+		3	0
617C	Bedrock	-	+		-					-			-	-	-	-		-	-	1	9
Total Increasing		0	1	0	1	2	1	0	0	0	0	2	0	0	0	3	0	2	0	**12**	
Total Decreasing		1	0	0	1	0	0	0	0	1	1	0	1	2	1	1	0	1	1		**11**
Upgradient- Phase 11-12																				**Total Increasing**	**Total Decreasing**
W11-1ER	Phreatic																			0	0
W11-2E	Phreatic					+										+				2	0
W12-1E	Phreatic																			0	0
W12-2E	Phreatic			+	-					-										1	2
W11-1B	Till		-				+			-					-					1	3
W12-1B	Till															+	-			1	1
Total Increasing		0	0	1	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	**5**	
Total Decreasing		0	1	0	1	0	0	0	0	2	0	0	0	0	1	0	1	0	0		**6**
Downgradient Phase 1-10																				**Total Increasing**	**Total Decreasing**
1008ER2	Phreatic													+	-					1	1
106WR	Phreatic																			0	0
618AR	Phreatic						+									+				2	0
620A	Phreatic							-								+				1	1
629E	Phreatic			-								+			-					1	2
630E	Phreatic	-			+	-	+								-				-	2	4
W9-1E	Phreatic				+	-										+				2	1
W9-2E	Phreatic															+				1	0
1008BR2	Till											+			-	+				2	1
101C	Till																			0	0
1040B	Till																+			1	0
1041B	Till	-			-	-														0	3
104C	Till			-			+	-												1	2
106CR	Till							+									+			2	0
107BR	Till	+		+	+	+		+		+	+		-	+	+	+		+		11	1
618CR	Till		-	+									-		-					1	3
620C	Till															+				1	0
624B	Till	+		+	+	+				+	+		-			+	+	+		9	1
626B	Till						-					-								0	2
629B	Till						+													1	0
630B	Till			+											-					1	1
104D	Bedrock						+	-		-	-									1	3
106DR	Bedrock				+	-								-	-	+		+		3	3
107CR	Bedrock	-			-					-				-	-	-		-		0	7
1134B	Bedrock															+				1	0
627A	Bedrock						+						-			+				2	1
628A	Bedrock																			0	0
Total Increasing		2	0	4	5	2	6	2	0	2	2	2	0	2	1	11	3	3	0	**47**	
Total Decreasing		3	1	2	2	4	1	3	0	2	1	1	4	2	8	1	0	1	1		**37**
Downgradient Phase 11-12																				**Total Increasing**	**Total Decreasing**
W11-3E	Phreatic	+		+												+				3	0
W11-4E	Phreatic	+			+		+			+				+		+		+		7	0
W11-5E	Phreatic					-										+				1	1
W11-6E	Phreatic	-										+								1	1
W12-3E	Phreatic			-												+				1	1
W12-4E	Phreatic			-		-				-					+					1	3
W12-5E	Phreatic			-																0	1
W11-5B	Till															+				1	0
W12-4B	Till	-									-			-			-			0	4
Total Increasing		2	0	1	1	0	1	0	0	1	0	1	0	1	1	5	0	1	0	**15**	
Total decreasing		2	0	3	0	2	0	0	0	1	1	0	0	1	0	0	1	0	0		**11**

Notes:
+ = Statistically Significant Increasing Trend
- = Statistically Significant Decreasing Trend

Prepared by: CRH
Checked by: DFSC
Reviewed by: APTM

Figures



REFERENCE

BASE MAP TAKEN FROM USGS 7.5 MINUTE QUADRANGLE TITLED "NORRIDGEWOCK,ME" DATED 1982. ORIGINAL SCALE 1:24000.

GOLDER

SCALE	AS SHOWN
DATE	02/26/2020
DESIGN	EW
CADD	AAZ
CHECK	DFS
REVIEW	APTM

TITLE

SITE LOCATION MAP

FILE No.	20137272FEB26_001.dwg		
PROJECT No.	20137272	REV.	0

WMDSM - NORRIDGEWOCK, MAINE

FIGURE 1

LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 1008BR — GROUNDWATER MONITORING WELL
- SW-9 — SURFACE WATER MONITORING SAMPLE POINTS
- PHASE 1-6 — APPROXIMATE LANDFILL PHASE BOUNDARY

NOTES

1) IN OCTOBER 2018, MONITORING WELL W11-1E WAS ABANDONED AND REPLACED WITH MONITORING WELL W11-1ER.

REFERENCES

1) BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.

2) VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

800 0 800
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
TRIANNUAL GROUNDWATER SAMPLING REPORT
NORRIDGEWOCK, MAINE

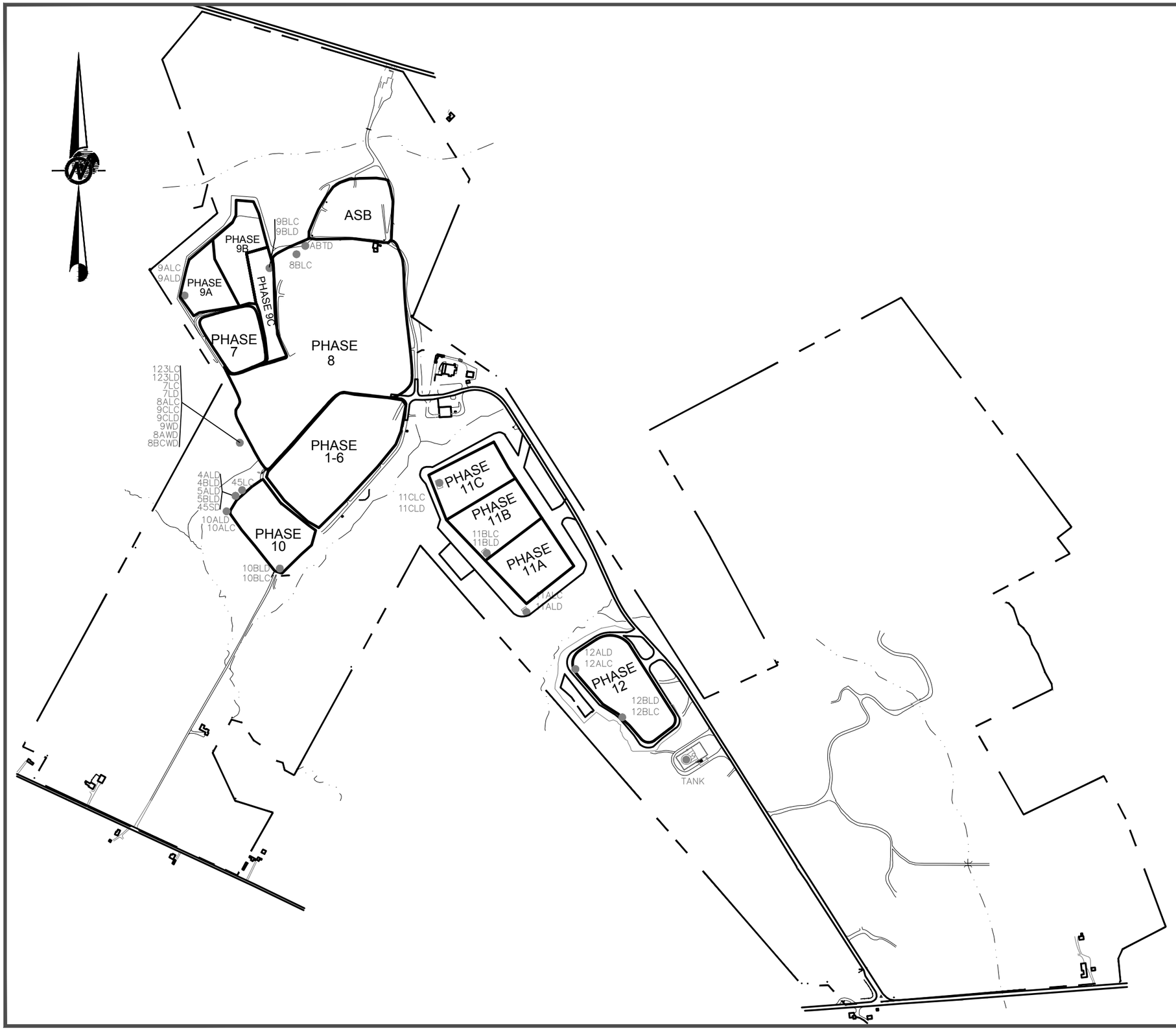
TITLE
GROUNDWATER AND SURFACE WATER SAMPLING LOCATION MAP

GOLDER

PROJECT No.		20137272	FILE No.20137272FEB26_002	
DESIGN	EW	02/26/20	SCALE AS SHOWN	REV. 0
CADD	AAZ	02/26/20		
CHECK	DFS	04/15/20		
REVIEW	APTM	04/15/20		

FIGURE 2

Drawing file: J:\Drawings\1998\983-6836_WMDSM\TAR\2020_02_25\20137272FEB26_002.dwg Apr 15, 2020 - 4:01pm



LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 9ALC — LEACHATE COLLECTION (LC) AND/OR LEAK DETECTION (LD)SAMPLING LOCATION
- PHASE 1-6 — APPROXIMATE LANDFILL PHASE BOUNDARY

REFERENCES

1. BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.
2. VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

800 0 800
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
TRIANNUAL GROUNDWATER SAMPLING REPORT
NORRIDGEWOCK, MAINE

TITLE
LEACHATE COLLECTION AND DETECTION SAMPLING LOCATION MAP

GOLDER

PROJECT No.		20137272	FILE No.	9836836JUN17-2.dwg	
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CADD	RWC	10/30/19			
CHECK	APTM	10/30/19			
REVIEW	DFS	10/30/19			

FIGURE 3

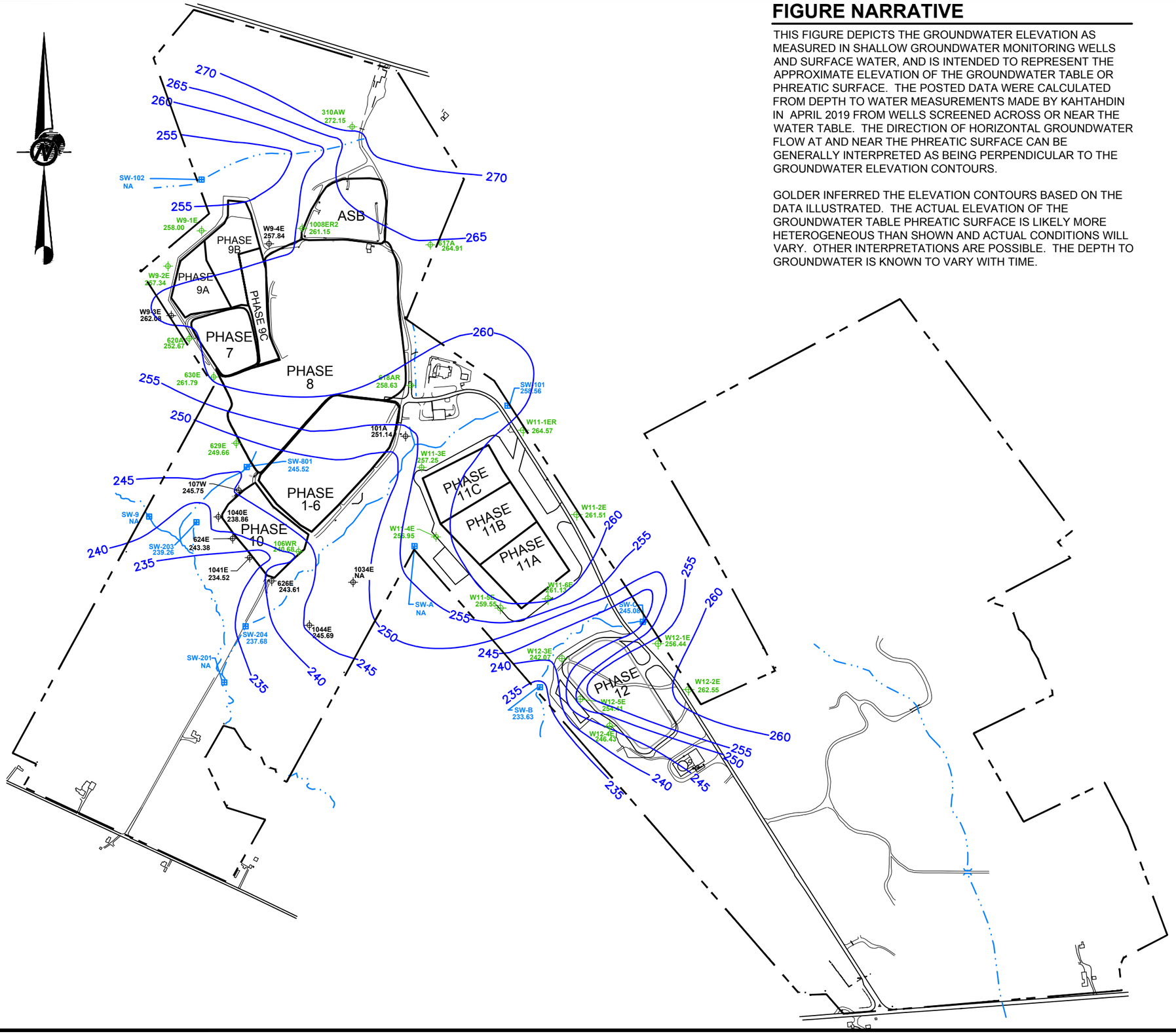

FIGURE NARRATIVE

THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION AS MEASURED IN SHALLOW GROUNDWATER MONITORING WELLS AND SURFACE WATER, AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER TABLE OR PHREATIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY KAHTAHDIN IN APRIL 2019 FROM WELLS SCREENED ACROSS OR NEAR THE WATER TABLE. THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE PHREATIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

GOLDER INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED. THE ACTUAL ELEVATION OF THE GROUNDWATER TABLE PHREATIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 1008BR 259.51 — GROUNDWATER QUALITY MONITORING WELL WITH PHREATIC SURFACE ELEVATION IN FEET NA= WATER LEVEL NOT AVAILABLE
- 107W 245.69 — GROUNDWATER ELEVATION MONITORING WELL WITH PHREATIC SURFACE ELEVATION IN FEET (NOT PART OF THE SAMPLING PROGRAM) NA= WATER LEVEL NOT AVAILABLE
- SW-9 NA — SURFACE WATER MONITORING POINT NA = WATER SURFACE ABOVE TOP OF MEASURING POINT
- 255 — PHREATIC SURFACE CONTOUR (FT-MSL)

NOTES

1.) DEPTH TO GROUNDWATER AND SURFACE WATER MEASURED IN APRIL 2019.

2.) DATUM IS AN ESTABLISHED SITE DATUM.

REFERENCES

1) BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.

2) VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

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SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
ANNUAL SAMPLING REPORT
NORRIDGEWOCK, MAINE

TITLE
PHREATIC SURFACE CONTOUR MAP

GOLDER

PROJECT No.		20137272	FILE No.	20137272FEB26_003.dwg
DESIGN	EW	02/26/20	SCALE	AS SHOWN
CADD	AAZ	02/26/20	REV.	0
CHECK	DFS	04/15/20		
REVIEW	APTM	04/15/20		

FIGURE 4

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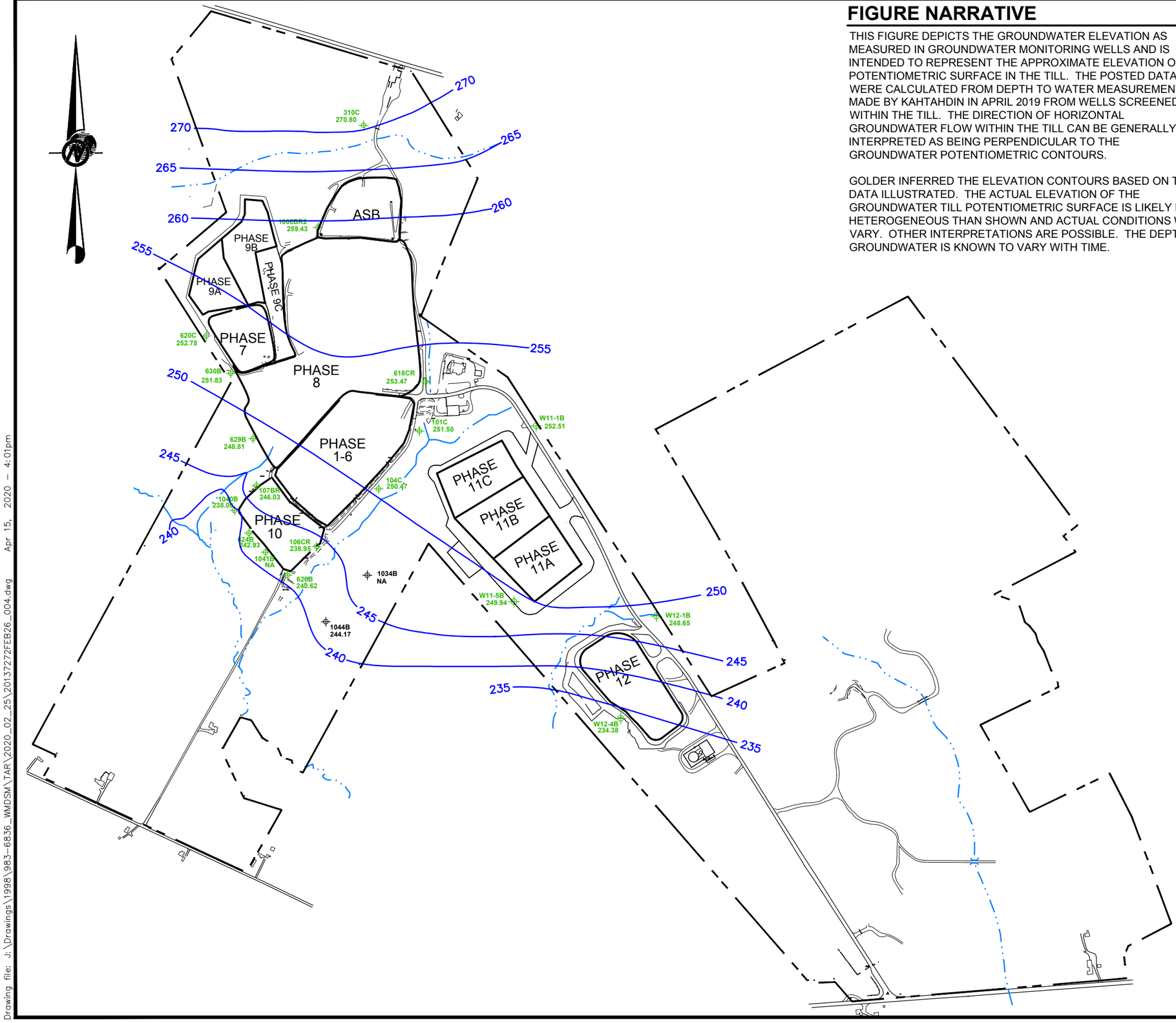

FIGURE NARRATIVE

THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION AS MEASURED IN GROUNDWATER MONITORING WELLS AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE POTENTIOMETRIC SURFACE IN THE TILL. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY KAHTAHDIN IN APRIL 2019 FROM WELLS SCREENED WITHIN THE TILL. THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW WITHIN THE TILL CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER POTENTIOMETRIC CONTOURS.

GOLDER INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED. THE ACTUAL ELEVATION OF THE GROUNDWATER TILL POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 310C 271.85 — GROUNDWATER QUALITY MONITORING WELL WITH GROUNDWATER ELEVATION (TILL) IN FEET. NA=WATER LEVEL NOT AVAILABLE
- 1030B 247.09 — GROUNDWATER ELEVATION MONITORING WELL WITH GROUNDWATER ELEVATION (TILL) IN FEET. NA=WATER LEVEL NOT AVAILABLE
- 245 — TILL POTENTIOMETRIC SURFACE CONTOUR (FT-MSL)

NOTES

1.) DEPTH TO GROUNDWATER MEASURED IN APRIL 2019.

2.) DATUM IS AN ESTABLISHED SITE DATUM.

REFERENCES

1) BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.

2) VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

800 0 800
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
ANNUAL SAMPLING REPORT
NORRIDGEWOCK, MAINE

TITLE
POTENTIOMETRIC (TILL) SURFACE CONTOUR MAP

GOLDER

PROJECT No.		20137272	FILE No.	20137272FEB26_004.dwg
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CADD	AAZ	02/26/20		
CHECK	DFS	04/15/20		
REVIEW	APTM	04/15/20		

FIGURE 5

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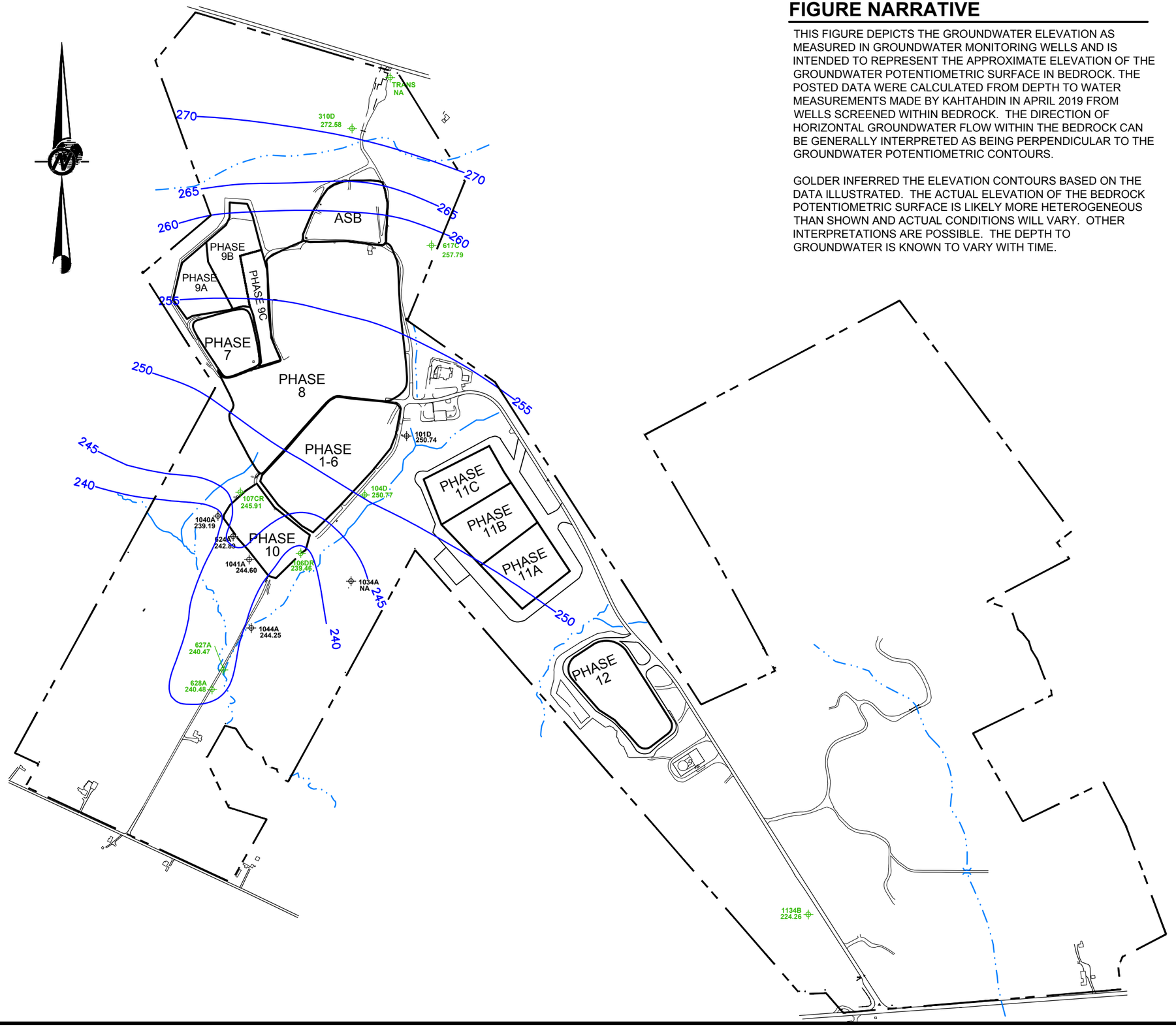

FIGURE NARRATIVE

THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION AS MEASURED IN GROUNDWATER MONITORING WELLS AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE IN BEDROCK. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY KAHTAHDIN IN APRIL 2019 FROM WELLS SCREENED WITHIN BEDROCK. THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW WITHIN THE BEDROCK CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER POTENTIOMETRIC CONTOURS.

GOLDER INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED. THE ACTUAL ELEVATION OF THE BEDROCK POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 104D 250.67 — GROUNDWATER QUALITY MONITORING WELL WITH GROUNDWATER ELEVATION (BEDROCK) IN FEET. NA= WATER LEVEL NOT AVAILABLE
- 1034A 246.73 — GROUNDWATER ELEVATION MONITORING WELL WITH GROUNDWATER ELEVATION (BEDROCK) IN FEET. NA= WATER LEVEL NOT AVAILABLE
- 245 — BEDROCK POTENTIOMETRIC SURFACE CONTOUR (FT-MSL)

NOTES

1.) DEPTH TO GROUNDWATER MEASURED IN APRIL 2019.

2.) DATUM IS AN ESTABLISHED SITE DATUM.

REFERENCES

1) BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.

2) VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

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SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
1						

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
ANNUAL SAMPLING REPORT
NORRIDGEWOCK, MAINE

TITLE
POTENTIOMETRIC (BEDROCK) SURFACE CONTOUR MAP

GOLDER

PROJECT No.		20137272	FILE No.	20137272FEB26_005.dwg
DESIGN	EW	02/26/20	SCALE AS SHOWN	REV. 0
CADD	AAZ	02/26/20		
CHECK	DFS	04/15/20		
REVIEW	APTM	04/15/20		

FIGURE 6

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APPENDIX A

Field Information Forms

WMDSM Crossroads Landfill
Water Level Measurements

Well	East	North	Top of PVC	Geologic	Depth to	Date	Water	Comments
	(ft.)	(ft.)	Elevation	Unit	Water (ft.)	4/26/19	Elevation	
B-1002AR	9234.70	10491.00	260.04	Rock			260.04	Well completely surrounded by water
B-1002B	9236.20	10480.10	259.25	Till			259.25	Well completely surrounded by water
B-1002E	9237.70	10508.10	260.50	Phreatic			260.50	Well completely surrounded by water
B-1003A	9557.02	10433.98	273.47	Rock			273.47	Well removed
B-1003B	9554.45	10425.22	272.26	Till			272.26	Well removed
B-1003E	9526.41	10436.29	273.27	Phreatic			273.27	Well removed
B-1008BR2			271.52	Till	12.09		271.52	Standard Monitoring Well
B-1008ER2			271.50	Phreatic	10.35		271.50	Standard Monitoring Well
B-101A	10314.70	8490.20	271.58	Phreatic			271.58	20.44 20.38
B-101C	10309.20	8496.14	272.25	Till	20.75		272.25	Standard Monitoring Well
B-101D	10313.90	8499.40	271.12	Rock			271.12	
B-1034A	9865.30	7325.25	255.38	Rock			255.38	
B-1034B	9883.60	7318.59	257.31	Till			257.31	
B-1034E	9891.81	7314.50	257.71	Phreatic			257.71	
B-1040A	8789.85	7854.01	247.89	Rock	8.70		247.89	
B-1040B	8798.70	7848..09	248.35	Till	10.35		248.35	Standard Monitoring Well
B-1040E	8807.10	7840.69	249.54	Phreatic	10.68		249.54	
B-1041A	9041.69	7501.95	249.65	Rock	5.05		249.65	
B-1041B	9052.82	7507.42	250.18	Till	BROKEN		250.18	Standard Monitoring Well
B-1041E	9058.39	7513.35	252.00	Phreatic	17.48		252.00	
B-1044A	9058.39	6948.46	249.27	Rock			249.27	B-5.25, 5.02, 5.64, 6.24 L to R
B-1044B	9544.44	6938.65	249.42	Till	5.25		249.42	
B-1044E	9539.74	6967.99	251.33	Phreatic			251.33	
B-104C	9975.90	8024.60	256.50	Till	6.03		256.50	Standard Monitoring Well
B-104D	9975.90	8024.60	256.47	Rock	5.70		256.47	Standard Monitoring Well
B-106CR	9469.23	7555.10	258.25	Till	19.30		258.25	Standard Monitoring Well
B-106DR	9458.59	7552.60	258.67	Rock	19.21		258.67	Standard Monitoring Well

B-106WR	9452.65	7562.72	259.44	Phreatic	18.56	4/26/19		259.44	Standard Monitoring Well
B-107BR	8977.02	8049.67	266.13	Till	20.10			266.13	Standard Monitoring Well
B-107CR	8970.70	8044.80	265.71	Rock	19.80			265.71	Standard Monitoring Well
B-107W	8970.54	8055.50	262.85	Phreatic	17.10			262.85	
B-1134B	13563.13	4631.53	245.13	Rock	20.87			245.13	Standard Monitoring Well
B-301A	8462.80	8214.23	248.34	Phreatic				248.34	Could Not Locate
B-301B	8462.80	8214.23	248.32	Till				248.32	Could Not Locate
B-301C	8340.82	8016.95	244.37	Rock				244.37	
B-310AW	9884.92	10983.92	275.38	Phreatic	3.23			275.38	Standard Monitoring Well
B-310C	9853.17	10994.21	273.36	Till	2.54			273.36	Standard Monitoring Well
B-310D	9874.06	10987.19	272.70	Rock	0.12			272.70	Standard Monitoring Well
B-617A	10514.64	10033.17	268.66	Phreatic	3.75			268.66	Standard Monitoring Well
B-617C	10516.32	10041.49	269.04	Rock	11.25			269.04	Standard Monitoring Well
B-618AR	10346.50	9163.29	267.66	Phreatic	9.03			267.66	Standard Monitoring Well
B-618CR	10346.64	9168.25	267.33	Till	13.84			267.33	Standard Monitoring Well
B-620A	8571.18	9275.80	261.56	Phreatic	8.89			261.56	Standard Monitoring Well
B-620C	8567.50	9272.90	261.58	Till	8.80			261.58	Standard Monitoring Well
B-624A	8912.00	7689.35	249.26	Rock	6.37			249.26	
B-624B	8916.27	7662.88	249.77	Till	6.84			249.77	Standard Monitoring Well
B-624E	8920.85	7665.65	250.65	Phreatic	7.27			250.65	
B-626B	9231.24	7319.46	252.09	Till	11.47			252.09	Standard Monitoring Well
B-626E	9235.54	7324.91	253.17	Phreatic	9.56			253.17	
B-627A	8831.98	6609.50	241.99	Rock	1.52			241.99	Standard Monitoring Well
B-628A	8741.29	6451.25	242.19	Rock	1.71			242.19	Standard Monitoring Well
B-629B	8950.16	8439.22	265.64	Till	16.83			265.64	Standard Monitoring Well
B-629E	8950.02	8434.35	265.68	Phreatic	16.02			265.68	Standard Monitoring Well

Well	East (ft.)	North (ft.)	Top of PVC Elevation	Geologic Unit	Depth to Water (ft.)	Date	Water Elevation	Comments
B-630B	8767.89	8968.05	269.80	Till	17.97	4/26/19	269.80	Standard Monitoring Well

B-630E	8780.24	8955.90	269.60	Phreatic	7.81		269.60	Standard Monitoring Well
W9-1E	10146.52	8670.23	260.30	Phreatic	2.30		260.30	Standard Monitoring Well
W9-2E	9860.26	8400.42	261.02	Phreatic	3.68		261.02	Standard Monitoring Well
W9-3E	9462.64	8426.62	266.68	Phreatic	4.60		266.68	In between C20S & W92E
W9-4E	10040.23	9214.46	259.92	Phreatic	2.08		259.92	Across from Phase 9B pump house
W11-1B	11263.91	8539.33	272.54	Till	20.03		272.54	Standard Monitoring Well
W11-1E	11381.87	8338.63	272.07	Phreatic	7.50		272.07	Standard Monitoring Well
W11-2E	11263.91	7859.43	266.63	Phreatic	5.12		266.63	Standard Monitoring Well
W11-3E	10441.27	8248.80	261.93	Phreatic	4.68		261.93	Standard Monitoring Well
W11-4E	10574.83	7691.59	277.21	Phreatic	20.26		277.21	Standard Monitoring Well
W11-5B	11082.56	7102.30	274.89	Till	24.95		274.89	Standard Monitoring Well
W11-5E	11079.27	7105.99	273.28	Phreatic	13.73		273.28	Standard Monitoring Well
W11-6E	11461.64	7180.63	274.89	Phreatic	13.76		274.89	Standard Monitoring Well
W12-1B	12245.02	6985.02	254.50	Till	5.85		254.50	Standard Monitoring Well
W12-1E	12350.01	6820.01	263.50	Phreatic	7.06		263.50	Standard Monitoring Well
W12-2E	12595.00	6450.00	268.40	Phreatic	5.85		268.40	Standard Monitoring Well
W12-3E	11575.01	6700.05	247.70	Phreatic	5.63		247.70	Standard Monitoring Well
W12-4B	11954.98	6150.03	251.50	Till	17.12		251.50	Standard Monitoring Well
W12-4E	11959.98	6155.03	252.45	Phreatic	6.02		252.45	Standard Monitoring Well
W12-5E	11709.17	6371.15	261.11	Phreatic	6.70		261.11	Standard Monitoring Well

TOTMAN 18.47

Well	East	North	Top of PVC	Geologic	Depth to	Date 4/26/19	Water	Comments
	(ft.)	(ft.)	Elevation	Unit	Water (ft.)		Elevation	
SW-101	NA	NA	259.38	Phreatic	0.82	5/2/2018	258.63	
SW-102	NA	NA	253.57	Phreatic	*	5/2/2018	252.87	OUT OF WATER
SW-201	NA	NA	236.83	Phreatic	*	5/2/2018	236.83	Under Water
SW-203	NA	NA	241.55	Phreatic	2.29	5/2/2018	239.45	
SW-204	NA	NA	239.08	Phreatic	1.40	5/2/2018	237.48	
SW-801	NA	NA	246.90	Phreatic	1.38	5/2/2018	245.55	
SW-9	NA	NA	240.30	Phreatic	*	5/2/2018	240.30	Stake out of water
SW-A	NA	NA	249.00	Phreatic	*	5/2/2018	246.80	OUT OF WATER
SW-B	NA	NA	234.91	Phreatic	1.28	5/2/2018	233.71	
SW-C	NA	NA	245.73	Phreatic	0.65	5/2/2018	245.21	

~~1.40~~
2.29

5.25 5.02 5.64 6.24
| | | |
1044 B

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
101C	1400	5/21/19	1452	5/21/19		44.42.713	069.50.827

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.79	54.75	49.05	2.67	140	45	6300	2"	~~1.66~~ 0.0705

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1406	7.13	10.30	167	0.61	4.24	162.7	140	20.77
5	1411	6.89	10.26	167	1.86	3.72	152.4	↓	20.79
10	1416	7.18	10.29	168	2.37	3.19	131.6	↓	20.81
15	1421	7.28	10.39	169	3.61	2.44	117.4	↓	↓
20	1426	7.41	10.38	169	2.58	1.90	111.4	↓	↓
25	1431	7.56	10.39	170	2.16	1.57	105.5	↓	↓
30	1436	7.64	10.40	170	1.86	1.38	99.5	↓	↓
35	1441	7.70	10.32	170	1.71	1.28	95.9	↓	↓
40	1446	7.72	10.25	170	1.66	1.21	93.1	↓	↓
45	1451	7.77	10.27	169	1.68	1.18	88.3	↓	↓
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 15-20
Wind Direction NW
Outlook: Sunny (Cloudy)
Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No
See Well Information Form for more comments

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104C	1350	6/10/19	1442	6/10/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.44	28.65	24.98	171	100	50	5000	2"	0.0451

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1351	7.61	14.12	252	0.82	10.11	101.7	100	7.79
5	1356	7.37	13.09	247	0.00	4.11	90.1		7.82
10	1401	7.42	13.08	248	0.00	3.60	78.8		7.85
15	1406	7.48	13.02	248	0.00	3.46	62.0		
20	1411	7.53	13.15	245	0.12	2.33	48.6		
25	1416	7.55	13.11	246	0.17	1.91	39.2		
30	1421	7.53	13.06	255	0.00	1.75	34.5		
35	1426	7.52	13.02	261	0.00	1.55	28.7		
40	1431	7.52	13.08	267	0.00	1.49	22.3		
45	1436	7.53	13.00	268	0.00	1.46	19.9		
50	1441	7.50	12.92	280	0.00	1.48	18.9		
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: clear
Wind Speed: none
Wind Direction: none
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 6/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: Yes (No)

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104D	1246	6/4/19	1408	6/4/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.86	53.50	49.80	407	60	80	4800	2"	0.107

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1247	6.50	12.46	23	1.26	18.29	169.8	60	7.85
5	1252	6.44	10.86	249	0.11	7.83	152.8		8.44
10	1257	6.61	11.00	248	0.28	6.02	136.1		8.89
15	1302	6.86	11.09	246	0.18	5.11	118.6		9.42
20	1307	7.03	11.25	246	0.50	4.06	98.9		9.70
25	1312	7.09	11.51	247	0.11	3.89	93.1		9.91
30	1317	7.16	11.62	246	0.09	3.76	87.1		10.12
35	1322	7.24	11.08	244	0.50	3.56	84.2		10.31
40	1327	7.31	10.78	243	0.55	3.27	80.6		10.55
45	1332	7.39	10.49	243	0.79	3.03	76.8		10.70
50	1337	7.51	10.78	243	0.80	2.68	69.6		10.91
55	1342	7.78	11.36	241	0.88	2.48	61.8		11.02
60	1347	7.94	11.95	240	0.88	2.34	55.4		11.10
65	1352	8.12	12.23	241	0.95	2.36	51.6		11.05 cont
70	1357	8.25	12.49	241	8.81	2.85	47.1		11.20 on 6a

Sample Odor: Slight Moderate Strong None — Wind Speed: None — Outlook: Sunny Cloudy

Sample Color: Clear — Wind Direction: none — Precipitation: Yes No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 650 (circle one)
Lamotte 2020 2020* (circle one)

Calibration: See calibration sheet dated: 6/4/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lowpeild

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

	Time	PH	C°	Spec cond	Turb	D.O	ORP	Flow	p Stati
75	1402	8.31	12.46	244	0.88	2.42	46.2	60	11.23
80	1407	8.35	12.36	2.44	0.95	2.40	46.5	↓	11.25

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106CR	1109	5/20/19	1225	5/20/19		44.42.519	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.45	36.90	32.90	128	220	70	15400	2"	0.0336625

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1114	7.78	9.28	452	0.00	7.41	184.8	220	20.10
5	1119	6.97	9.14	465	0.00	3.50	190.9		
10	1124	6.94	9.27	474	0.00	3.18	173.3		
15	1129	6.99	9.35	479	0.00	3.28	140.8		
20	1134	7.02	9.30	480	0.00	3.35	119.0		
25	1139	7.07	9.42	481	0.00	3.40	91.7		
30	1144	7.13	9.51	478	0.00	3.54	65.0		
35	1149	7.15	9.41	476	0.00	3.35	40.1		
40	1154	7.17	9.43	478	0.00	3.46	21.0		
45	1159	7.21	9.49	480	0.00	3.59	-6.7		
50	1204	7.20	9.41	480	0.00	3.59	-13.4		
55	1209	7.21	9.37	481	0.00	3.57	-23.0		
60	1214	7.24	9.35	481	0.00	3.65	-31.6		
65	1219	7.25	9.41	482	0.00	3.61	-36.8		
70	1224	7.25	9.35	483	0.00	3.64	-40.0		

Sample Odor: Slight Moderate Strong (None) Wind Speed CALM Outlook: Sunny (Cloudy)

Sample Color: CLEAR Wind Direction _____ Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)	Comments:
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106DR	1243	5/20/19	1320	5/20/19		44.42.519	069.50.948

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.30	61.10	52.25	312	160	30	4800	2"	0.082375

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1249	7.09	9.77	462	0.89	7.38	24.0	160	20.12
5	1254	6.97	9.83	511	0.00	6.34	28.7		
10	1259	7.02	9.94	520	0.00	6.01	28.7		
15	1304	7.00	9.74	526	0.00	5.43	34.0		
20	1309	7.03	9.90	527	0.00	5.31	34.7		
25	1314	7.06	10.06	529	0.00	5.19	33.3		
30	1319	7.06	9.91	531	0.00	4.97	35.3	↓	↓
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed: CALM

Wind Direction: _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106WR	1357	5/20/19	1455	5/20/19		44.42.518	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
18.72	29.50	29.20	100	400	55	22000	2"	0.0262

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1359	7.01	10.14	252	39.0	9.26	96.7	400	18.87
5	1404	6.53	8.27	228	41.3	9.83	94.9		18.94
10	1409	6.50	8.17	229	32.9	9.81	93.2		
15	1414	6.45	8.12	231	23.1	9.81	91.1		
20	1419	6.42	8.11	233	19.2	9.79	89.0		
25	1424	6.41	8.12	233	15.8	9.72	88.3		
30	1429	6.40	8.14	234	13.3	9.66	87.7		
35	1434	6.39	8.12	235	8.14	9.70	87.6		
40	1439	6.36	8.11	235	6.32	9.68	88.7		
45	1444	6.36	8.10	234	3.15	9.67	89.8		
50	1449	6.35	8.09	234	2.54	9.71	90.8		
55	1454	6.34	8.08	233	2.39	9.69	91.4		
60									

Sample Odor: Slight Moderate Strong (None) Wind Speed Calm Outlook: (Sunny) Cloudy

Sample Color: CLEAR Wind Direction _____ Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 2020+ (circle one)

Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments: _____

Sampled by (print/sign): NICK ADAMS / N Adams

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107BR	1253	5/21/19	1348	5/21/19		44.42.572	069.51.689

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.39	34.10	30.25	94	300	50	15000	2"	0.02465

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1257	6.61	11.99	620	27.0	5.51	146.6	300	20.70
5	1302	6.65	11.01	650	29.1	4.82	123.8	↓	21.09
10	1307	6.67	11.20	676	23.6	4.11	82.8	↓	21.22
15	1312	6.72	11.02	697	13.5	3.48	39.8	↓	↓
20	1317	6.76	10.91	706	8.59	3.22	15.5	↓	↓
25	1322	6.80	11.10	716	5.25	3.10	-9.1	↓	↓
30	1327	6.81	10.93	722	3.39	2.98	-17.0	↓	↓
35	1332	6.78	10.51	726	3.54	2.80	-23.0	↓	↓
40	1337	6.72	10.23	731	1.57	2.88	-28.9	↓	↓
45	1342	6.80	10.18	734	1.40	2.94	-32.5	↓	↓
50	1347	6.81	10.16	737	1.24	2.85	-34.9	↓	↓
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: CLEAR
Wind Speed 15-20
Wind Direction NW
Outlook: (Sunny) Cloudy
Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107CR	1407	5/21/19	1445	5/21/19		44.42.572	069.51.090

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.06	52.30	47.60	241	50	30	1520	2"	0.06885

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1414	7.40	11.15	414	3.17	7.76	26.4	50	20.92
5	1419	7.60	11.98	408	1.16	7.54	14.5		21.41
10	1424	7.72	12.38	406	0.29	7.53	11.1		21.84
15	1429	7.79	13.01	405	0.00	7.71	12.5		22.28
20	1434	7.82	13.04	403	0.00	7.83	15.6		22.80
25	1439	7.83	13.15	401	0.00	8.06	22.4		23.29
30	1444	7.84	13.32	400	0.00	8.11	24.3		23.57
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed: 10-15

Wind Direction: NW

Outlook: (Sunny) Cloudy

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS/

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 10% (.10 Katahdin)	Turb:	+ \ - 10% NTU *
Temp:	+ \ - 0.5 °C	DO:	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	Drawdown:	+ \ - 0.5 ft
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310AW	1157	6/14/19	1223	6/14/19		44.43.079	069.51.089

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.48	17.45	10.20	604	100	20	2000	2"	0.01168

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1202	8.63	11.08	190	2.55	7.93	88.3	100	4.22
5	1207	8.48	10.72	177	0.00	7.18	89.2	↓	4.38
10	1212	8.49	10.51	169	0.00	7.28	91.1		4.45
15	1217	8.48	10.45	167	0.00	7.24	93.7		4.48
20	1222	8.44	10.35	164	0.00	7.14	98.8	↓	4.51
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Gus Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310C	1536	6/13/19	1603	6/13/19		44.43.080	069.51.097

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
1.44	63.85	55.50	507	300	20	6,000	2"	0.1339

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1542	8.21	8.46	149	8.41	7.92	209.3	300	2.01
5	1547	8.37	8.39	150	8.54	6.90	204.9	↓	↓
10	1552	8.37	8.34	150	4.12	6.88	202.0		
15	1557	8.38	8.31	150	3.74	6.87	200.3		
20	1602	8.38	8.30	150	3.29	6.88	199.5		
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed 0-5 SE

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: Yes (No)

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310D	1432	6/13/19	1525	6/13/19		44.43.077	069.51.091

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.58	185.00	184.50	1740	100	35	3500	2"	0.4598

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1449	8.00	9.63	148	0.03	6.83	227.8	100	356
5	1454	7.80	10.15	148	1.97	5.59	224.6		375
10	1459	7.85	10.16	148	0.00	5.32	219.8		
15	1504	7.89	10.04	148	0.00	5.78	215.4		
20	1509	7.89	9.97	148	0.73	5.64	213.6		
25	1514	7.88	9.77	148	0.00	5.44	211.4		
30	1519	7.87	9.52	148	0.00	5.21	210.8		
35	1524	7.87	9.37	149	0.00	4.93	210.0		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 0-5

Wind Direction SE

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: Yes (No)

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617A	1216	5/13/19	1308	5/13/19		44.42.962	069.50.885

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.76	17.86	12.70	85	50	35	1750	2"	0.02235

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1232	7.02	9.81	376	5.24	4.90	131.7	50	~~4.18~~ 5.30
5	1237	7.18	10.65	378	2.66	4.42	117.6		~~4.90~~ 5.56
10	1242	7.18	10.95	380	2.08	4.29	114.3		~~4.40~~ 5.80
15	1247	7.15	10.88	381	2.06	4.09	112.0		~~4.47~~ 6.03
20	1252	7.13	10.26	384	3.40	3.75	109.7		6.20
25	1257	7.02	9.44	383	4.05	3.56	110.4		6.47
30	1302	7.01	9.31	380	4.23	3.54	109.1		6.60
35	1307	7.01	9.10	379	4.16	3.54	106.8	↓	6.75
40	~~1312~~								
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed NE

Wind Direction 0-5

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617C	1220	5/13/19	1301	5/13/19		44.42.962	069.50.890

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
11.23	203.74	190.10	1693	220	40	8800	2"	0.4473

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1220	6.33	8.54	287	2.58	4.54	145.7	220	12.57
5	1225	6.21	8.49	282	2.74	1.56	136.2		13.21
10	1230	6.44	8.69	279	2.76	1.10	120.4		14.05
15	1235	6.67	9.48	279	2.96	0.95	102.7		14.65
20	1240	6.64	9.24	280	2.90	0.87	93.0		14.93
25	1245	6.60	8.89	280	3.01	0.86	84.8		15.09
30	1250	6.62	8.67	280	3.34	0.79	79.1		15.36
35	1255	6.69	8.56	280	2.93	0.76	72.2		15.75
40	1300	6.70	8.49	279	2.98	0.73	71.1		15.91
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None) Wind Speed Calm Outlook: Sunny (Cloudy)

Sample Color: Clear Wind Direction _____ Precipitation: Yes (No)

Purge comments: _____

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020e) (circle one)

Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: _____

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618AR	1107	5/13/19	1139	5/13/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.69	18.18	12.80	29.4	50	30	1500	2"	0.00776

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1108	5.79	11.09	611	2.00	15.10	123.1	50	10.52
5	1113	6.06	10.94	603	1.67	5.99	102.1		11.01
10	1118	6.11	10.75	600	1.67	5.47	87.1		11.21
15	1123	6.14	10.51	593	1.19	5.21	79.1		11.43
20	1128	6.17	10.50	597	1.16	5.01	70.9		11.83
25	1135	6.18	10.23	600	1.09	4.83	66.6		12.05
30	1138	6.16	10.05	594	1.19	4.90	65.7		12.27
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: 0-5
Wind Direction: NE
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Austin Lovejoy

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618CR	1055	5/13/19	1140	5/13/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
1400	80.53	66.50	497	360	40	14400	2"	0.13125

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1059	8.19	9.57	163	0.00	11.21	127.3		14.04
5	1104	7.12	8.97	170	0.00	5.11	161.0		
10	1109	7.45	8.87	180	0.00	4.03	150.5		
15	1114	7.62	8.74	180	0.00	4.02	143.2		
20	1119	7.78	8.69	174	0.00	3.92	131.8		
25	1124	7.90	8.67	168	0.00	3.83	124.6		
30	1129	7.98	8.60	164	0.00	3.90	120.6		
35	1134	8.02	8.49	163	0.00	3.90	116.9		
40	1139	8.07	8.43	160	0.00	3.83	112.0		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: CLEAR
Wind Speed 0-5
Wind Direction NE
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620A	1136	5/16/19	1212	5/16/19		44.42.750	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.69	14.50	14.00	51	80	35	2800	2"	0.0134

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P Static
0	1136	6.74	10.15	295	5.73	5.23	152.0	80	10.11
5	1141	6.63	10.18	295	6.19	4.06	152.4		10.66
10	1146	6.67	10.18	293	2.92	3.72	147.3		11.19
15	1151	6.68	10.13	294	3.12	3.52	143.8		11.68
20	1156	6.72	10.21	292	2.86	3.38	138.0		12.19
25	1201	6.74	10.13	293	1.96	3.29	134.4		12.73
30	1206	6.75	10.31	292	1.88	3.29	131.4		13.92
35	1211	6.75	10.41	293	1.79	3.19	127.3	↓	13.13
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/16/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments: Dup Hole

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620C	1220	5/16/19	1311	5/16/19		44.42.749	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.65	46.15	40.30	300	112	50	5600	2"	0.0793

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1220	7.80	10.03	120	5.12	14.04	125.1	112	9.21
5	1225	7.86	9.98	211	3.86	7.03	135.7		9.51
10	1230	8.01	9.94	209	0.07	6.05	134.7		9.51
15	1235	8.18	9.80	208	0.13	5.03	129.7		
20	1240	8.28	9.81	208	0.[illegible]58	4.30	125.6		
25	1245	8.36	9.86	208	0.92	3.66	121.6		
30	1250	8.42	9.90	209	QW 1.12	3.00	117.2		
35	1255	8.45	9.98	210	0.93	2.75	113.6		
40	1300	8.48	9.97	211	1.07	2.42	109.6		
45	1305	8.50	9.92	211	0.98	2.39	105.6		
50	1310	8.50	9.93	212	0.89	2.21	102.9	↓	↓
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/16/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovelo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
624B	1315	6/14/19	1339	6/14/19		44.42.507	069.51.074

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.40	28.65	24.05	158	400	20	8000	2"	0.041625

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1318	6.52	9.64	641	15.4	4.96	140.1	400	8.28
5	1323	6.51	9.24	648	2.75	0.59	148.3		8.46
10	1328	6.60	9.20	657	0.00	0.44	151.1		8.48
15	1333	6.64	9.33	649	0.00	0.40	151.8		
20	1338	6.65	9.23	649	0.00	0.37	152.9		
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed CALM

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
626B	1422	6/4/19	1503	6/4/19		44.42.471	069.50.984

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
12.39	21.00	18.00	63	220	35	7700	2"	0.014

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1427	7.77	12.85	90	0.82	10.16	85.7	220	12.89
5	1432	7.14	11.89	90	0.55	7.81	74.6		
10	1437	6.75	11.29	88	0.33	6.43	68.3		
15	1442	6.56	11.17	88	0.39	5.81	62.6		
20	1447	6.35	11.10	89	0.33	5.07	57.1		
25	1452	6.22	11.12	89	0.22	4.64	53.1		
30	1457	6.18	11.07	90	0.28	4.51	51.9		
35	1502	6.14	11.16	40	0.33	4.42	51.1		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated:_____

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
627A	1025	6/4/19	1200	6/4/19		44.42.338	069.51.022

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.01	59.35	53.90	491	50	50	2500	2"	0.1297

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1109	7.57	15.94	171	2.01	9.96	122.4	50	3.11
5	1114	7.67	14.16	170	1.29	7.19	111.1		3.31
10	1119	7.67	15.06	167	0.55	4.97	105.3		3.54
15	1124	7.77	15.18	167	0.35	3.70	98.1		3.70
20	1129	7.88	15.40	166	0.19	3.39	83.4		3.92
25	1134	7.94	15.51	166	0.05	3.28	76.9		4.02
30	1139	7.99	15.68	166	0.09	3.20	73.6		4.11
35	1144	8.08	16.32	166	0.18	3.10	66.3		4.16
40	1149	8.15	17.01	165	0.18	3.01	~~57.0~~ 62.0		4.21
45	1154	8.18	17.04	166	0.22	3.06	59.1		
50	1159	8.22	16.96	166	0.18	3.12	57.4		
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed none
Wind Direction _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 6/4/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lowe:10

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
628A	1228	6/4/19	1310	6/4/19		44.42.310	069.51.032

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.57	54.00	49.30	442	120	40	4800	2"	0.116

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1229	7.86	11.85	192	4.70	6.58	112.5	120	3.39
5	1234	7.81	11.56	191	1.28	3.01	101.6		3.51
10	1239	7.86	11.33	191	0.10	1.73	90.1		3.75
15	1244	7.94	11.12	191	2.28	1.12	74.8		3.82
20	1249	8.00	10.99	192	3.27	0.76	69.9		3.90
25	1254	8.00	10.75	192	2.52	0.69	66.6		3.96
30	1259	8.09	11.19	191	1.69	0.65	57.9		
35	1304	8.13	11.28	191	1.75	0.63	54.1		
40	1309	8.14	11.18	192	1.88	0.60	52.1		
45									
50									
55									
60									

Comments:

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed none
Wind Direction _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 6/4/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovaino

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629B	1051	5/14/19	1128	5/14/19		44.42.634	069.51.122

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
16.73	40.28	38.80	209	160	35	5600	2"	0.04227

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1051	7.06	8.44	187	1.21	9.07	182.6	160	16.73
5	1056	7.21	8.79	187	1.68	7.81	172.2	↓	↓
10	1101	7.40	9.03	186	1.94	6.91	157.8		
15	1106	7.54	9.02	185	1.87	5.69	149.8		
20	1111	7.62	9.12	184	1.62	5.27	144.4		
25	1116	7.70	9.23	184	1.53	5.04	139.6		
30	1121	7.74	9.30	184	1.56	5.00	135.8		
35	1126	7.76	9.32	184	1.62	4.86	134.9	↓	↘
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments: Lots of air coming through tubing

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629E	1220	5/14/19	1242	5/14/19		44.42.634	069.51.121

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
15.39	25.10	22.50	63	50	20	1000	2"	0.0166

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1220	7.14	6.81	275	2.89	10.34	122.0	50	19.63
5	1225	7.12	6.73	277	2.24	10.17	120.7		
10	1230	7.11	6.66	278	2.10	9.89	119.2		
15	1235	7.11	6.73	277	1.91	9.80	117.1		
20	1240	7.12	6.88	276	1.88	9.74	119.0	↓	
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630B	1404	5/16/19	1445	5/16/19		44.42.708	069.51.200

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
18.13	57.10	54.60	345	280	40	11200	2"	0.0911

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1404	8.50	10.87	108	1.69	14.71	186.8	280	19.37
5	1409	8.45	10.71	142	2.28	5.21	184.6		
10	1414	8.32	10.40	180	2.64	0.95	183.9		
15	1419	8.40	10.38	179	4.91	0.75	174.8		
20	1424	8.43	10.45	179	5.87	0.72	169.4		
25	1429	8.47	10.46	179	7.00	0.69	162.1		
30	1434	8.49	10.45	180	5.47	0.65	154.4		
35	1439	8.48	10.46	180	5.68	0.63	150.0		
40	1444	8.46	10.44	180	5.72	0.62	146.1		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: clear
Wind Speed 10
Wind Direction E
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/16/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630E	1426	5/14/19	1453	5/14/19		44.42.705	069.51.195

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.73	15.00	12.50	45	50	25	1250	2"	0.01188

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1426	5.98	6.93	122	3.61	4.82	209.3	50	8.12
5	1431	5.93	6.81	123	2.33	5.02	197.2	↓	8.48
10	1436	5.92	6.80	122	2.21	5.31	190.0		8.56
15	1441	5.94	6.68	122	1.89	5.20	183.6		↓
20	1446	5.93	6.69	123	1.68	5.33	179.1		
25	1451	5.95	6.82	123	1.88	5.11	173.2	↓	↓
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: Calm

Wind Direction: _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments: _____

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: _____

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

1008BR2

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
~~1008ER2~~	1136	5/22/19	1203	5/22/19		44.42.931	069.51.130

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
11.93	~~18.95~~ 63.05	~~16.50~~ 60.0	485	80	25	2000	2"	0.32 0.1208

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1136	7.40	10.93	179	0.12	7.88	50.0	80	12.25
5	1141	7.51	10.88	178	0.08	6.28	49.4	↓	12.28
10	1146	7.65	10.68	170	0.00	6.13	47.6		↓
15	1151	7.78	10.56	167	0.00	6.00	45.6		
20	1156	7.86	10.17	166	0.08	6.11	44.2		
25	1201	7.88	10.24	162	0.00	5.88	43.6	↓	↓
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 10
Wind Direction N
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 5/22/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

100SER2

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
~~100SBR2~~	1055	5/22/19	1121	5/22/19		44.42.930	069.51.129

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.58	~~65.05~~ 18.95	~~60.00~~ 16.5	~~450~~ 56	30	25	2.0oc	2"	0.52 0.0148

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1055	6.71	11.67	561	0.97	4.88	63.3	80	11.23
5	1100	6.74	11.13	559	0.11	3.29	54.5	↓	11.38
10	1105	6.77	10.98	555	0.00	2.82	46.0	↓	11.45
15	1110	6.75	10.62	556	0.00	2.58	43.8	↓	↓
20	1115	6.74	10.34	558	0.00	2.42	42.5	↓	↓
25	1120	6.76	10.28	558	0.00	2.36	40.5		
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10

Wind Direction N

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 5/22/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments: Dup Hole

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1040B	1400	5/13/19	1431	5/13/19		44.42.533	069.51.113

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.75	24.00	15.20	42	280	30	8400	2"	0.01109

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1401	5.90	7.72	229	1.26	10.30	155.7	280	11.40
5	1406	5.21	7.27	223	1.13	1.72	154.4	↓	11.52
10	1411	5.32	7.11	223	1.28	1.37	137.8		↓
15	1416	5.38	7.17	225	0.66	1.26	123.0		
20	1421	5.46	7.20	226	0.40	1.32	114.4		
25	1426	5.52	7.20	224	0.40	1.48	109.1		
30	1431	5.56	7.20	224	0.45	1.47	104.6	↓	
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed ~~CALM~~ 0-5
Wind Direction NE
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1041B	1400	5/13/19	1435	5/13/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
* N/A	18.30	14.98		110	25	2750	2"	

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1409	6.60	9.13	307	2.78	10.74	150.2	110	*
5	1414	6.50	8.98	300	2.25	10.46	127.8		
10	1419	6.47	8.74	301	2.14	10.12	124.1		
15	1424	6.43	8.69	301	2.50	9.87	121.8		
20	1429	6.40	8.63	300	2.48	9.63	118.4		
25	1434	6.35	8.50	302	2.11	9.53	117.7		
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: 0-5
Wind Direction: NE
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: (Yes) No
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments: * Unable to measure static because steel casing is at 45 degree angle.
hout draw down based on historical flow rate

Sampled by (print/sign): Nick Adams

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1134B	1528	5/13/19	1600	5/13/19		44.42.259	069.49.839

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.77	278.83	277.50	2420	240	30	7200	2"	0.6394

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P Static
0	1528	7.79	8.61	229	1.93	9.12	101.9	240	21.98
5	1533	7.93	8.42	226	0.99	7.78	92.8		22.08
10	1538	8.26	8.15	226	0.78	5.80	83.7		22.17
15	1543	8.28	8.04	231	0.66	4.62	77.9		22.27
20	1548	8.35	7.97	237	0.68	3.78	74.0		
25	1553	8.42	7.99	240	0.58	3.72	69.8		
30	1558	8.44	7.97	241	0.65	3.68	67.6		
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: NA

Wind Direction: None

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)	Comments:
Locked:	Yes	(No)	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
~~310AW~~ MW-16	1022	6/10/19	1111	6/10/19		44.43.079	069.51.089

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.91	17.45	~~10.20~~ 15.5	~~9~~ 119	50	40	2000	2"	~~0.0132~~ 0.019

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1030	6.78	16.24	284	0.73	5.03	168.1	50	3.88
5	1035	6.61	15.80	280	0.00	3.51	175.7		4.04
10	1040	6.73	16.71	280	0.00	2.65	165.9		4.13
15	1045	6.93	17.43	281	0.00	2.47	152.6		
20	1050	7.23	18.39	2.82	0.00	2.50	133.0		
25	1055	7.33	19.16	282	0.00	2.47	123.2		
30	1100	7.36	19.61	2.81	0.00	2.76	117.1		
35	1105	7.39	19.83	280	0.00	2.65	112.0		
40	1110	7.40	20.08	280	0.00	2.57	107.5		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed none

Wind Direction none

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: (Yes) No
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W9-2E	1154	6/10/19	1226	6/10/19		44.42.830	069.51.340

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.51	20.10	17.60	124	50	30	1500	2"	0.0327

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1155	7.47	24.86	269	0.13	4.45	94.1	50	4.89
5	1200	7.19	23.60	272	0.55	7.71	86.8		5.05
10	1205	7.07	23.38	268	0.00	6.54	83.1		5.24
15	1210	7.03	23.35	267	0.00	5.47	77.2		5.49
20	1215	7.07	23.48	265	0.13	5.12	68.1		5.78
25	1220	7.12	23.62	263	0.19	4.89	62.7		5.92
30	1225	7.16	23.47	263	0.13	4.47	55.2		6.12
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: clear
Wind Speed none
Wind Direction none
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovelo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more details / instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1B	1527	5/16/19	1603	5/16/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.36	39.84	34.00	129	360	35	12600	2"	0.0341

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1527	8.42	9.20	173	2.26	14.31	186.6	360	20.36
5	~~1528~~ 1532	7.84	8.93	175	2.03	5.69	197.2	↓	↓
10	1537	8.23	8.79	175	1.16	2.18	171.8		
15	1542	8.40	8.76	172	0.87	1.19	153.7		
20	1547	8.45	8.76	172	0.68	0.98	136.1		
25	1552	8.46	8.74	170	0.62	0.92	122.3		
30	1557	8.46	8.74	170	0.45	0.91	116.4	↓	↓
35	1602	8.44	8.74	170	0.45	0.92	112.8		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/16/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovelo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1ER	1105	5/21/19	1156	5/21/19		44.42.742	069.50.578

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.27	19.56	17.06	92	50	50	2500	2"	~~0.66~~ 0.0243

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1105	6.28	14.11	270	2.36	3.81	193.5	50	8.18
5	1110	6.32	13.74	269	4.10	2.96	187.1		8.49
10	1115	6.34	13.68	269	5.13	2.92	180.1		8.90
15	1120	6.40	13.78	268	3.36	2.22	169.7		9.18
20	1125	6.46	13.97	267	2.24	2.00	158.3		9.48
25	1130	6.53	14.12	267	3.06	2.03	147.1		9.79
30	1135	6.61	14.37	267	~~2.92~~ 3.76	2.03	135.5		10.11
35	1140	6.61	14.21	266	2.22	2.00	130.1		10.~~38~~29
40	1145	6.63	14.05	266	1.79	1.99	124.4		10.53
45	1150	6.63	14.14	266	1.88	1.99	121.3		10.76
50	1155	6.61	14.23	264	1.88	1.97	118.6		11.03
55									
60									

DUP-02 HERE

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: 20 mph
Wind Direction: NW
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments: ~~Well pushing up from ground. Stands over 6'.~~ WELL WAS REDEVELOPED IN 2018
DUP-02 HERE

Sampled by (print/sign): Agustin Loreilo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-2E	1117	5/20/19	1208	5/20/19		44.42.676	069.50.479

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.56	14.93	11.75	68	50	50	2500	2"	~~9.66~~ 0.6179

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1117	6.27	12.02	254	2.06	4.21	194.8	50	5.49
5	1122	6.23	11.73	255	1.53	3.03	191.3		5.73
10	1127	6.38	11.88	253	1.34	2.74	187.6		5.94
15	1132	6.61	12.04	254	0.97	2.42	170.6		6.12
20	1137	6.77	12.12	254	1.04	2.36	157.2		6.33
25	1142	6.87	12.15	253	0.88	2.19	147.5		6.51
30	1147	6.96	12.33	253	0.79	2.08	136.1		6.62
35	1152	7.10	12.53	253	0.82	2.03	125.3		6.75
40	1157	7.14	12.60	253	0.85	1.97	118.6		6.89
45	1202	7.17	12.64	252	0.78	1.91	112.9		7.02
50	1207	7.19	12.72	252	0.82	1.89	108.8	↓	7.12
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: Sunny (Cloudy)
Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-3E	1233	5/21/19	1324	5/21/19		44.42.675	069.50.780

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.63	18.09	15.10	109	50	50	2500	2"	~~0.66~~ 0.02879

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1233	7.19	15.60	290	2.66	7.58	131.2	50	4.76
5	1238	7.21	15.38	289	3.56	5.21	129.1		5.00
10	1243	7.27	15.26	290	4.81	3.71	110.2		5.34
15	1248	7.21	14.56	289	2.89	3.63	104.6		5.61
20	1253	7.17	13.45	290	2.54	3.54	97.9		5.86
25	1258	7.08	13.43	288	2.89	3.28	94.1		6.12
30	1303	7.02	13.13	287	3.12	3.03	92.9		6.47
35	1308	7.05	13.19	287	3.01	3.00	86.9		6.70
40	1313	7.09	13.23	287	2.93	2.95	80.4		6.90
45	1318	7.10	13.23	286	2.96	2.94	76.9		7.11
50	1323	7.13	13.27	286	2.87	2.92	72.8		7.23
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NW
Wind Direction 15-20
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Lovelo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-4E	1240	5/20/19	1331	5/20/19		44.42.594	069.50.713

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons	
20.44	37.37	35.45	142	50	50	2500	2"	0.66	0.0375

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1240	6.99	12.67	553	1.22	5.51	143.4	50	21.55
5	1245	6.96	12.52	553	1.10	4.87	136.1		21.68
10	1250	6.98	12.56	554	1.12	4.13	130.6		21.99
15	1255	6.99	12.68	554	1.08	4.01	122.7		22.25
20	1300	7.03	12.85	554	0.97	3.95	116.4		22.54
25	1305	7.08	13.01	554	0.88	3.96	108.6		22.71
30	1310	7.11	13.38	555	0.86	3.96	103.1		23.15
35	1315	7.13	13.71	557	0.90	3.81	97.2		23.31
40	1320	7.16	14.10	557	0.90	3.75	94.2		23.51
45	1325	7.19	14.21	557	0.97	3.76	90.1		23.65
50	1330	7.21	14.39	5.57	0.92	3.73	86.7		23.77
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovelo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5B	1522	5/20/19	1604	5/20/19		44.42.527	069.50.560

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
24.95	62.79	60.04	9337	220	40	8800	2"	~~2.42~~ 0.0890

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1522	8.29	14.01	173	3.99	3.14	102.1	220	24.95
5	1527	8.27	14.74	170		1.65	93.2	↓	↓
10	1532	8.29	14.52	170	3.55	1.41	83.1		
15	1537	8.31	14.38	169	3.62	1.22	74.8		
20	1542	8.34	14.30	169	3.72	1.12	64.1		
25	1547	8.38	14.26	167	3.84	1.06	58.5		
30	1552	8.37	14.30	167	3.66	1.02	52.7		
35	1557	8.38	14.34	166	3.66	0.98	46.1		
40	1602	8.40	14.18	166	3.52	0.92	40.6	↓	↓
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear

Wind Speed NA
Wind Direction NA

Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lorenzo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5E	1417	5/20/19	1459	5/20/19		44.42.527	069.50.563

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.44	25.98	23.90	99	110	40	4400	2"	~~1.16~~ 0.0261

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1417	7.98	13.99	180	2.43	3.30	116.1	110	14.92
5	1422	8.08	14.06	178	3.17	2.89	103.3	↓	15.21
10	1427	8.11	13.52	179	4.08	2.67	96.9		15.55
15	1432	8.09	13.25	178	4.51	2.51	90.8		16.08
20	1437	8.13	13.23	179	4.73	2.48	83.9		16.36
25	1442	8.11	13.20	179	4.52	2.23	79.0		16.58
30	1447	8.15	13.32	180	4.23	2.18	72.8		16.84
35	1452	8.16	13.41	181	4.12	2.09	69.2		16.98
40	1457	8.16	13.55	181	3.93	2.02	65.6	↓	17.08
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 ~~2020+~~ (circle one)

Calibration: See calibration sheet dated: 5/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-6E	1330	5/3/19	1408	5/3/19		44.42.559	069.30.474

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.72	23.49	21.25	72	250	25	1250	2"	0.018825

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1342	5.89	7.15	240	6.82	8.29	119.3	50	15.12
5	1347	6.04	7.20	138	5.70	6.27	110.1	↓	15.55
10	1352	6.19	7.23	130	4.79	5.79	103.4	↓	15.70
15	1357	6.20	7.21	130	3.94	5.76	102.9	↓	15.79
20	1402	6.22	7.19	130	3.80	5.71	102.1	↓	15.88
25	1407	6.24	7.15	130	3.16	5.65	101.0	↓	15.97
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: clear
Wind Speed CALM
Wind Direction _____
Outlook: Sunny (Cloudy)
Precipitation: (Yes) ^

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/3/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-1B	1504	6/4/19	1546	6/4/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.17	22.50	20.00	103	400	35	14000	2"	0.027

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1510	7.96	8.42	279	2.14	17.59	187.3	400	9.17
5	1515	7.59	3.16	276	1.12	5.86	151.6		9.20
10	1520	7.63	7.51	276	0.52	3.12	137.6		9.33
15	1525	7.53	7.08	276	0.18	1.77	125.6		
20	1530	7.27	7.10	276	0.08	1.12	117.1		
25	1535	7.13	7.13	275	0.18	0.88	110.2		
30	1540	7.15	7.15	274	0.26	0.34	103.1		
35	1545	7.20	7.20	274	0.18	0.78	98.9		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 10
Wind Direction N
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 6/4/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Austin Lowery

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-1E	1108	6/7/19		6/7/19		44.42.543	069.50.267

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.00	13.55	11.05	29	50	45	2250	2"	0.0076025

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1119	7.16	11.50	105	1.45	10.39	101.9	50	8.95
5	1124	6.24	10.97	107	2.12	6.62	106.2	|	9.40
10	1129	6.19	11.02	105	2.32	5.16	111.5	|	9.69
15	1134	6.22	11.04	106	2.63	3.82	107.1	|	9.95
20	1139	6.26	11.11	106	2.90	3.50	99.7	|	10.20
25	1144	6.30	11.28	105	3.15	3.19	98.5	|	10.42
30	1149	6.33	11.42	105	3.70	2.77	97.0	|	10.64
35	1154	6.29	11.44	105	3.56	2.17	97.3	|	10.83
40	1159	6.33	11.75	104	3.27	1.71	95.6	|	11.03
45	1204	6.30	11.78	104	3.10	1.16	95.4	↓	DRY
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: CALM
Wind Direction: _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 6/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments: PURGED 45 MINUTES UNTIL SITE WENT DRY. DID NOT SAMPLE ON 6/7/19

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-2E	1104	6/4/19	1136	6/4/19		44.42.498	069.50.180

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.12	13.41	10.91	36	110	30	3300	2"	0.009

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1105	5.88	9.60	52	4.44	16.07	97.3	110	7.20
5	1110	4.89	9.07	48	2.32	14.01	118.6	↓	7.33
10	1115	4.20	8.66	45	1.87	12.32	139.1	↓	7.48
15	1120	4.28	8.74	46	1.96	12.22	130.1	↓	7.55
20	1125	4.38	8.84	45	2.12	12.13	126.4	↓	↓
25	1130	4.45	8.68	45	2.06	12.08	124.3	↓	↓
30	1135	4.41	8.52	45	1.98	11.94	127.4	↓	↓
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed NA
Wind Direction NA
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 6/4/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Austin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-3E	953	6/12/19	1048	6/12/19		44.42.486	069.50.435

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
5.54	13.70	11.20	54	50	45	2250	2"	0.014.5

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1002	6.50	12.44	340	0.10	7.32	107.2	50	6.27
5	1007	6.45	11.77	314	0.00	6.86	100.0		6.60
10	1012	6.46	11.51	318	0.00	5.43	99.2		6.96
15	1017	6.50	11.32	315	0.00	4.30	96.1		7.17
20	1022	6.56	11.36	317	0.00	3.43	93.7		7.32
25	1027	6.54	11.32	318	0.00	3.04	95.2		7.48
30	1032	6.54	11.41	319	0.00	2.51	95.9		7.63
35	1037	6.59	11.44	321	0.00	2.11	97.6		7.78
40	1042	6.59	11.30	328	0.00	2.04	95.3		7.90
45	1047	6.62	11.44	329	0.00	1.92	93.9	↓	8.00
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: CLEAR
Wind Speed CALM
Wind Direction _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 6/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-4B	1410	5/22/19	5/22/19	1521		44.42.422	069.50.303

Static (ft) Depth (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
17.57	42.70	40.20	2.14	360	70	25200	2"	~~6.66~~ 0.0565

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1410	7.58	12.55	172	0.77	4.49	107.6	360	17.57
5	1415	7.81	12.43	171	0.68	2.37	90.8		
10	1420	8.12	12.33	171	0.50	1.37	80.0		
15	1425	8.16	12.30	170	0.45	1.09	68.6		
20	1430	8.20	12.24	170	0.50	0.91	57.3		
25	1435	8.23	12.28	170	0.45	0.88	44.4		
30	1440	8.24	12.32	171	0.56	0.81	34.0		
35	1445	8.22	12.38	171	0.48	0.84	32.5		
40	1450	8.22	12.35	170	0.45	0.80	24.1		
45	1455	8.25	12.39	170	0.60	0.73	18.1		
50	1500	8.25	12.40	170	0.62	0.70	11.2		
55	1505	8.26	12.41	170	0.55	0.69	6.5		
60	1510	8.28	12.42	170	0.48	0.72	3.7		
	1515	8.28	12.39	170	0.55	0.68	3.6		
	1520	8.30	12.40	171	0.55	0.70	3.4		

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 10
Wind Direction N
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/22/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Loreilo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-4E	1303	5/22/19	1329	5/22/19		44.42.422	069.50.302

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.36	13.45	10.95	44	50	25	1250	2"	0.01162

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1303	6.43	13.94	191	3.10	4.58	84.0	50	7.49
5	1308	6.38	14.12	190	1.28	4.33	77.1	↓	7.71
10	1313	6.41	14.26	191	0.63	4.22	69.1	↓	7.97
15	1318	6.38	14.37	191	0.45	4.12	66.1	↓	8.21
20	1323	6.39	14.55	190	0.45	4.03	63.6	↓	8.43
25	1328	6.36	14.18	187	0.45	4.05	63.6	↓	8.61
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None) Wind Speed 10 Outlook: (Sunny) Cloudy

Sample Color: clear Wind Direction N Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 5/22/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:
Damaged: Yes (No) Comments:
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 10% (.10 Katahdin)
Temp: +\- 0.5 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-5E	1519	5/21/19	1543	5/21/19		44.42.442	069.50.371

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.97	20.70	14.50	53	400	20	8000	2"	0.013825

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1522	7.58	7.17	231	0.71	4.17	103.0	400	10.26
5	1527	7.32	6.67	241	0.00	2.22	87.3		
10	1532	7.27	6.63	247	0.00	2.04	83.1		
15	1537	7.30	7.01	254	0.00	2.13	76.6		
20	1542	7.24	6.90	256	0.00	2.03	74.0		
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 10-15

Wind Direction NW

Outlook: (Sunny) Cloudy

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 5/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)	Comments:
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
TOTMAN	1245	6/13/19	1323	6/13/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.31	54.85	49.85	~~256~~ 289	200	30	6000	2"	0.07635

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1302	8.15	9.85	152	3.19	10.43	173.7	200	20.02
5	1307	8.05	9.51	148	1.87	9.81	175.5	|	20.18
10	1312	8.02	9.44	147	1.57	9.62	174.5	|	20.22
15	1317	8.01	9.40	146	0.79	9.58	173.9	|	20.23
20	1322	8.01	9.38	143	1.49	9.51	174.2	|	20.23
25	1327	8.02	9.43	140	1.32	9.15	174.1	|	20.23
30	1332	8.03	9.33	139	0.59	8.82	173.8	↓	20.23
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 0-5

Wind Direction Calm

Outlook: Sunny (Cloudy)

Precipitation: (Yes) (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments:

Sampled by (print/sign): NICK ADAMS / N Adams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 10% (.10 Katahdin)
Temp: + \ - 0.5 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
TRANS	NA	NA	1430	6/13/19		44.43.165	069.51.078

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
NA	NA	NA	NA	NA	NA	NA	2"	NA

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
15	1429	8.68	9.47	133	0.84	3.23	210.6	N/A	N/A

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: CLEAR

Wind Direction SE

Precipitation: (Yes) No

Purge comments:

Equipment Needed:

Solinst
Meters YSI (w/flow cell) & Lamotte

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:

1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Katahdin Analytical Services

WICK DRAIN, TANK, OFFICE & NEW GARAGE SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	EH	FIELD ALK	Comments Odor	Color	GPS	NORTH:	WEST:
8AWD	1135	6/17/19	6.53	22.34	368	13.6	1.98	12.7		Moderate	Orange			
8BCWD	1215	6/17/19	6.29	22.28	809	31.6	1.98	12.4		Strong	Brown			
9WD	1155	6/17/19	6.70	19.78	392	13.7	1.30	47.0		none	Clear			
TANK	[illegible]1630	6/13/19	8.17	15.9	16058	26.2	8.3	48.1	N/A	Strong	DK Brown			
OFFICE	[illegible]1630	6/14/19	9.16	9.9	163	1.1	7.4	229.0	N/A	None	Clear			
NEW GARAGE	1400	6/13/19	8.67	10.1	120	0.0	2.5	122.8	N/A	none	Clear			

Sample Odor: Slight Moderate Strong (None) **Wind Speed** SE 5-10 **Outlook:** Sunny (Cloudy) 6/13/19

Sample Color: Clear **Wind Direction** _____ **Precipitation:** (Yes) No

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Sampled by (print/sign): Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

SURFACE WATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW Ft. / Sec	Top of Stake	Comments Odor	Comments Color	GPS	NORTH:	WEST:
SW-A	1550	5/15/19	6.50	9.99	146	9.30	9.30	82.9	TSTM	OUT	NONE	CLEAR		44.42.566	069.50.749
SW-B	1630		5.79	7.95	85	2.67	10.24	100.7	3.0	1.00	NONE	CLEAR		44.42.440	069.50.449
SW-C	1615		5.62	7.90	62	2.52	10.43	103.8	STILL	0.45	NONE	LT YELLOW		44.42.597	069.50.368
SW-101	1525		6.23	10.67	76	3.16	8.46	76.8	5.0	0.82	NONE	LT YELLOW		44.42.785	069.50.663
DUP SW-102	1230		6.41	12.16	147	1.59	10.01	122.5	1.0	0.58	NONE	~~LT YELLOW~~	LT YELLOW		
SW-201	1510		6.53	10.84	105	3.29	~~3.29~~	67.0	2.0	UNDER	NONE	CLEAR		44.42.321	069.51.015
SW-203	1340		6.75	12.04	141	2.16	9.97	85.4	1.0	2.08	NONE	CLEAR		44.42.548	069.51.154
SW-204	1450		6.69	10.76	92	3.43	9.73	62.9	2.0	1.70	NONE	~~CLEAR~~ LT YELLOW		44.42.377	069.51.013
SW-801	1200		6.11	11.03	146	4.34	11.11	174.7	1.0	1.30	NONE	CLEAR		44.42.617	069.51.094
SW-9	1355	↓	6.49	11.04	77	3.10	9.88	75.0	STILL	CUT	NONE	LT YELLOW		44.42.506	069.51.241

Sample Odor: Slight Moderate Strong None **Wind Speed** _____ **Outlook:** Sunny Cloudy

Sample Color: _____ **Wind Direction** _____ **Precipitation:** Yes No

* DO FOR SW-201 = 10.04

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI ~~556~~ 650 (circle one)

Lamotte 2020 ~~2020+~~ (circle one)

Calibration: See calibration sheet dated: 5/15/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

LEACHATE COLLECTION SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	Comments Odor	Color	GPS	NORTH:	WEST:
123LC	1400	6/11/19	7.29	17.97	23070	184	3.07	16.7	MODERATE	LT BROWN			
45LC		6/11/19	SITE	DRY									
7LC	1430	6/11/19	7.04	18.62	26507	71.3	2.00	-75.8	~~MODERATE~~	LT BROWN ← STRONG			
8ALC	1215	6/12/19	7.60	26.38	17374	21.8	2.85	64.4	STRONG	BROWN			
8BLC	1410	6/12/19	7.79	27.47	22517	8.25	1.61	91.9	STRONG	DK BROWN			
8CLC	1430	6/12/19	7.81	26.97	18276	35.5	0.95	74.2	STRONG	DK BROWN			
9ABCLC	1520	6/11/19	7.74	20.25	29066	46.2	3.23	28.5	STRONG	DK BROWN			
10ABLC	1300	6/11/19	6.91	16.87	50171	626	-85.0	2.32	STRONG	LT BROWN			
11ABLC 11ALC	1345	6/11/19	7.69	19.32	31513	56.0	2.57	-25.1	STRONG	DK BROWN			
~~11BLC~~													
~~11CLC~~													
12ABLC	1615	6/12/19	7.33	21.43	30414	240	0.66	-51.4	SLIGHT	LT BROWN			
ABTD		6/11/19	SITE	HAS	BEEN	DELAMINATED			NOD				

Sample Odor: Slight Moderate Strong None

Sample Color: _____

Wind Speed 6/11 NW 0-5 6/12 ~~5~~ 5-10

Wind Direction

Outlook: Sunny Cloudy (6/11) (6/12 SUNNY)

Precipitation: Yes No (NO RAIN)

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 6/11, 6/12

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Sampled by (print/sign): Katrina Aman/

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

LEACHATE DETECTION SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	EH	Comments Odor	Comments Color	GPS	NORTH:	WEST:
12BLD	1115	6/12/19	6.65	18.93	3171	28.4	4.52	128.6	SLIGHT	LT BROWN			
4ABLD		6/12/19	SITE DRY										
45SD	1135	6/13/19	7.47	13.58	0.6601	5.78	10.72	210.0	None	Clear			
5ABLD		6/12/19	SITE DRY										
7LD	1310	6/12/19	7.17	23.22	2526	11.9	5.98	72.0	NONE	CLEAR			
9ABCLD	1350	6/12/19	7.34	24.78	2475	3.64	4.89	88.6	NONE	CLEAR			
10ABLD	1515	6/12/19	7.05	18.99	8978	6.62	6.91	85.3	SLIGHT	CLEAR			
11ABCLD 11ALD	1550	6/12/19	7.39	21.01	1708	14.8	6.18	93.1	NONE	CLEAR			
~~11BLD~~													
~~11CLD~~													
12ABLD	1630	6/12/19	7.36	20.58	1061	2.09	6.77	28.8	NONE	CLEAR			

Sample Odor: Slight Moderate Strong None **Wind Speed** ~~Calm~~ S 5-10 (6/12) SE 5-10 (6/13) **Outlook:** Sunny Cloudy (6/12) Cloudy (6/13)

Sample Color: SEE ABOVE **Wind Direction** _____ **Precipitation:** Yes (No) (6/12) Yes (6/13)

Comments: See Comments above for Sample Odor & Color ***Set up 45SD first thing, drips slowly

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI 556 650 (circle one)
Lamotte 2020 2020+ (circle one)

Calibration: See calibration sheet dated: 6/12/19 + 6/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Collect the water samples at each location following the parameter order:
1) VOC
2) TOC
3) BNA or SVOA
4) PCB
5) T-Metals
6) All other Wet Chemistry
7) T or F Coliforms

Sampled by (print/sign): NICK ADAMS

Instructions
- Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Cross Roads DATE: 5/3/19

PROJECT NUMBER: SAMPLER: Nick Adams

MODEL: YSi 650 SERIAL NO.: 02 H002 1AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
703		7.03		17.60
720			4.00	12.21

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
12.21	1413	713

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
1351	250.5	755

Calibration Solution Lot Number: 0928 **Calibration Solution Lot Number:** 2062
Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: Lamotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.84 → 10.0	800
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 5/3/19

QC'd By: Date:

DO 100.0 @ 10.84 806

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 5/13/19

PROJECT NUMBER: _____ SAMPLER: Nick Adams + GDS Loureiro

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
757		7.03		14.81
800			4.00	15.20

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
15.01	1413	804

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
14.91	240.5	807

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062 Calibration Range for Solution 240

MODEL: LaMotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.41 → 10.0	810
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: [signature] Date: 5/13/19

QC'd By: _____ Date: _____

DO 100.0 @ 15.41 821

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 5/14/19

PROJECT NUMBER: SAMPLER: Agustin Loureiro

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
745		7.04		17.78
749			4.00	19.79

Buffer Lot Numbers: pH 4: 0785 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
~~ANDS~~ 18.59	1413	755

Calibration Solution Lot Number: 1530
Calibration Range for Solution

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
18.62	237.6	801

Calibration Solution Lot Number: 2062
Calibration Range for Solution

MODEL: LaMotte 2020i SERIAL NO.: 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.20 → 10.00	740
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 5/14/19

QC'd By: Date:

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Cross roads DATE: 5/15/19

PROJECT NUMBER: _____ SAMPLER: NA

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
813		7.04	4.00a	18.17
817			4.00	20.16

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
823	1413	1826

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
16.97	237.6	830

Calibration Solution Lot Number: 1530
Calibration Range for Solution _____

Calibration Solution Lot Number: 2002
Calibration Range for Solution _____

MODEL: Lamotte 2020i **SERIAL NO.:** ~~1149~~ KA 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.10 → 10.00	835
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 5/15/19

QC'd By: _____ Date: _____

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 5/16/19

PROJECT NUMBER: SAMPLER: A. COVARRO

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
742		7.03		18.11
751			4.00	17.98

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
17.86	1413	0802

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.47	244.0	807

Calibration Solution Lot Number: 1530 Calibration Range for Solution _____

Calibration Solution Lot Number: 2062 Calibration Range for Solution _____

MODEL: LaMotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.14 → 10.00	820
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 5/16/19

QC'd By: _____ Date: _____

8/5 DO: 100.8 → 100.0 @ 17.08

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 5/20/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1040		7.03		19.10
1046			4.00	18.25

Buffer Lot Numbers: pH 4: 0596 pH 7: 0620 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
16.66	1413	1049

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.88	237.5	1054

Calibration Solution Lot Number: QGH058 Calibration Solution Lot Number: 2062

Calibration Range for Solution Calibration Range for Solution

MODEL: CHEMOTTE 2020 SERIAL NO.: 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	0.93 → 100	1051
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 5/20/19

QC'd By: Date:

1105 DO = 98.6 @ 15.63

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 5/20/14

PROJECT NUMBER: SAMPLER: Agustin Lorenzo

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1009		7.00	4.01	20.12

Buffer Lot Numbers: pH 4: 0735 pH 7: 0796 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
19.67	1414	1017

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
19.31	244.0	1023

Calibration Solution Lot Number: 1530 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2067 Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.87 → 10.00	1020
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 5/20/14

QC'd By: Date:

1040 DO = 99.8 @ 16.59

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 5/21/19

PROJECT NUMBER: SAMPLER: LOUREIRO

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1001		7.02	4.00	17.79

Buffer Lot Numbers: pH 4: 0735 pH 7: 0796 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
19.21	1413	1015

Calibration Solution Lot Number: 1530

Calibration Range for Solution

MODEL: LAMOTTE 2020i

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
19.57	240.0	1020

Calibration Solution Lot Number: 2062

Calibration Range for Solution

SERIAL NO.: 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10.10 → 10.10	1030
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 5/21/19

QC'd By: Date:

DO = 100.0 @ 17.75 @ 1033

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 5/21/19

PROJECT NUMBER: _____ SAMPLER: ADAMS

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1205		7.04		17.49
1209			4.00	17.24

Buffer Lot Numbers: pH 4: 0735 pH 7: 0796 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
17.67	1413	1215

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.24	244.0	1221

Calibration Solution Lot Number: 1530 **Calibration Solution Lot Number:** 2062

Calibration Range for Solution _____ Calibration Range for Solution _____

MODEL: LAMOTTE 2020 **SERIAL NO.:** 5347-3F04

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	1.08 → 1.00	1216
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: D Adams Date: 5/21/19

QC'd By: _____ Date: _____

1230 DO = 97.5 @ 18.75

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 5/22/19

PROJECT NUMBER: SAMPLER: A. COUREIRO

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
652		7.04		19.59
657			4.00	13.24

Buffer Lot Numbers: pH 4: 0735 pH 7: 0796 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
12.66	1413	703

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
13.57	244.0	710

Calibration Solution Lot Number: 1530 Calibration Range for Solution _____

Calibration Solution Lot Number: 2062 Calibration Range for Solution _____

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.14 → 10.00	725
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 5/22/19

QC'd By: _____ Date: _____

722 DO = 100.0 @ 18.39

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 6/4/19

PROJECT NUMBER: _____ SAMPLER: AL

MODEL: YSi 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
750		7.03		22.25
755			4.00	22.17

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
~~800 uL~~ 22.40	1418	800

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.65	237.5	805

Calibration Solution Lot Number: 1530 **Calibration Solution Lot Number:** 2002

Calibration Range for Solution _____ Calibration Range for Solution _____

MODEL: LaMotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	9.37 → 10.00	745
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: Kathleen Date: 6/4/19

QC'd By: _____ Date: _____

DO time 815 reading 100.0 temp ~~8.00~~ 21.14

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 6/5/19

PROJECT NUMBER: SAMPLER: AL

MODEL: YSI 5556 SERIAL NO.: SN09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
755		7.00		22.11
800			4.12	24.21

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
25.09	1670	805

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.64	234.4	810

Calibration Solution Lot Number: 1530
Calibration Range for Solution _____

Calibration Solution Lot Number: 2062
Calibration Range for Solution _____

MODEL: LaMotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.18 → 10.00	820
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: [signature] Date: 6/5/19

QC'd By: _____ Date: _____

DO 100.8 @ 22.20 @ 815

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 6/7/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 600 SERIAL NO.: 07H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
649		7.04		13.15
657			4.00	13.79

Buffer Lot Numbers: pH 4: 0735 pH 7: 8770 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
1222	1413	708

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
12.48	244.0	717

Calibration Solution Lot Number: 3217 **Calibration Solution Lot Number:** 2002

Calibration Range for Solution Calibration Range for Solution

MODEL: LAMOTTE 2020 **SERIAL NO.:** 3295-2202

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	1.01 → 1.00	700
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 6/7/19

QC'd By: Date:

728 DO = 99.1 @ 15.98

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 6/12/19

PROJECT NUMBER: _____ SAMPLER: _____

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
730		7.03		20.68
735			4.00	22.15
740	10.04			22.70

Buffer Lot Numbers: pH 4: 1526 pH 7: 0620 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
2079	1413	0758

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
25.20	237.5	1025

Calibration Solution Lot Number: 3912 **Calibration Solution Lot Number:** 2002

Calibration Range for Solution _____ Calibration Range for Solution _____

MODEL: LAMOTTE 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	1.06 → 1.00	1040
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 6/12/19

QC'd By: _____ Date: _____

1045 DO = 10.0 @ 25.2

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 6/10/19

PROJECT NUMBER: SAMPLER: A. LOURERO

MODEL: YSI 556 SERIAL NO.: 09J100717

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
715		7.03		21.55
728			4.00	21.49

Buffer Lot Numbers: pH 4: 0735 pH 7: 8770 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
21.46	1413	734

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.03	237.5	745

Calibration Solution Lot Number: 3212 **Calibration Solution Lot Number:** 2062

Calibration Range for Solution Calibration Range for Solution

MODEL: CAMS TE 2020 **SERIAL NO.:** ~~10297~~ AL 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	0.97 → 1.00	750
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 6/10/19

QC'd By: Date:

755 DO = 100.0 @ 20.09

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 10/13/19

PROJECT NUMBER: _____ SAMPLER: KA MA

MODEL: YSI 1050 SERIAL NO.: 02H002IAC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
800		7.10		21.84
805			4.10	22.94

Buffer Lot Numbers: pH 4: 15260 pH 7: 06020 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
22.74	1505	810

Calibration Solution Lot Number: 3002
Calibration Range for Solution _____

MODEL: LaMotte 2020

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
22.60	271.3	815

Calibration Solution Lot Number: 20602
Calibration Range for Solution _____

SERIAL NO.: 5347-3809

Turbidity Meter

Cal Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.10 → 10.00	820
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: Katie Lee Date: 10/13/19

QC'd By: _____ Date: _____

DO 95.9 @ 23.34 @ 830

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 6/13/19

PROJECT NUMBER: _____ SAMPLER: Katrina Aman + Nick Adam

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1020		7.04		17.64
1025			4.00	17.24

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
17.31	1413	1031

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.50	243.4	1036

Calibration Solution Lot Number: 0928 **Calibration Solution Lot Number:** 2062
Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: Lamotte 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.95 → 10.0	1042
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 6/13/19

QC'd By: _____ Date: _____

DO= 100.0 @ 12.34 1043

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 6/14/19

PROJECT NUMBER: SAMPLER: Nick Adams

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
806		7.03		20.16
808			4.00	20.02

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
19.87	1413	811

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
19.93	237.8	813

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062 Calibration Range for Solution 240

MODEL: Lamotte 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10.3 → 10.0	814
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 6/14/19

QC'd By: Date:

817 DO 99.7 @ 19.03

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 6/17/19

PROJECT NUMBER: SAMPLER: AL + NA + KA

MODEL: YSI 600 XL SERIAL NO.: 02 H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
810		7.00		23.30
815			4.01	16.95

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
23.55	1414	819

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.56	237.6	824

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062 Calibration Range for Solution 240

MODEL: LaMotte 2020 **SERIAL NO.:** SN 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	4.51 → 10.0	830
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 6/17/19

QC'd By: Date:

840 DO 100.4 @ 22.77

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
101C	1515	8/7/19	1608	8/7/19		44.42.713	069.50.827

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
23.46	54.75	49.05	243	150	45	6750	2"	0.063975

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1522	7.72	15.96	157	2.29	5.77	-171.1	150	23.68
5	1527	7.56	15.83	156	2.10	5.07	-190.2		23.76
10	1532	7.57	14.26	156	1.86	4.93	-192.9		23.80
15	1537	7.68	13.30	158	1.90	2.14	-211.1		"
20	1542	7.77	12.44	159	1.45	1.60	-231.9		"
25	1547	7.84	12.43	159	1.78	1.38	-241.3		"
30	1552	7.96	12.58	158	1.05	1.11	-248.2		"
35	1557	8.03	12.63	158	1.65	0.97	-254.0		"
40	1602	8.08	12.78	157	0.94	0.85	-259.3		"
45	1607	8.10	12.57	157	~~2.60~~ 1.80	0.83	-257.8	↓	"
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed CALM
Wind Direction _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

See Well Information Form for more comments

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104C	1224	8/7/19	1232	8/7/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.13	28.65	24.98	150	50	3	150	2"	0.039625

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1226								
Purge Stop	1229								
Pre Sample	1230	7.04	18.94	196	2.39	3.36	145.3	50	9.57
Post Sample	1340	7.53	18.98	217	1.78	6.08	-198.9	50	9.65

Sample Odor: Slight Moderate Strong (None) **Wind Speed** CALM **Outlook:** Sunny (Cloudy)

Sample Color: CLEAR **Wind Direction** _____ **Precipitation:** Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	Yes	(No)	

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	**Turb:**	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	**DO:**	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	**Drawdown:**	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104D	1155	8/7/19	1208	8/7/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.98	53.50	49.80	387	50	8	400	2"	0.10205

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1152								
Purge Stop	1205								
Pre Sample	1206	7.51	18.44	193	1.94	6.65	-166.0	50	10.30
Post Sample	1614	8.44	29.54	191	2.46	8.26	-189.8	50	10.30

GW-DUP-01 Here

Sample Odor: Slight Moderate Strong (None)

Wind Speed CALM

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments: GW-DUP-01 Here

Sampled by (print/sign): NICK ADAMS / Adam

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106CR	1443	8/8/19	1517	8/8/19		44.42.519	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.95	36.90	32.90	104	600	30	18000	2"	0.027375

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1446	7.54	12.48	475	4.70	6.88	-44.7	600	22.95
5	1451	7.50	11.25	450	4.36	4.14	-108.5		
10	1456	7.45	11.12	425	3.47	1.88	-152.3		
15	1501	7.42	11.20	416	3.56	1.40	-167.5		
20	1506	7.42	11.24	414	4.08	1.32	-166.1		
25	1511	7.40	11.28	412	3.60	1.21	-164.3		
30	1516	7.39	11.34	411	3.97	1.24	-160.0	↓	↓
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction SE

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Nicole Adams / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1
Temp:	+ \ - 0.1 °C
Spec Cond:	+ \ - 10% umho
ORP:	+ \ - 10% (10 millivolts Katahdin)
Comments:	* under 10 NTU's 3 readings within 1.0 NTU
Turb:	+ \ - 10% NTU *
DO:	+ \ - 10% mg/L
Drawdown:	+ \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106DR	1400	8/8/19	1430	8/8/19		44.42.519	069.50.948

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
22.00	61.10	52.25	287	440	20	8800	2"	0.075625

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1409	7.09	10.25	549	5.72	0.87	-132.0	440	26.85
5	1414	7.13	10.98	557	4.91	0.60	-143.0	↓	↓
10	1419	7.12	10.86	552	3.76	0.56	-148.5		
15	1424	7.13	10.88	552	4.64	0.51	-134.3		
20	1429	7.14	10.81	551	4.14	0.49	-123.1		
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction SE

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106WR	1240	8/8/19	1335	8/8/19		44.42.518	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.51	29.50	29.20	73	600	50	30000	2"	0.019225

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1244	6.74	12.59	313	47.9	10.93	192.8	600	21.61
5	1249	6.27	10.82	371	24.5	7.78	48.2		21.71
10	1254	6.34	10.79	371	11.6	7.69	-25.1		21.78
15	1259	6.37	10.71	370	9.98	7.63	-26.8		21.82
20	1304	6.38	10.87	370	11.1	7.64	-6.5		21.86
25	1309	6.38	10.78	370	10.83	7.66	33.4		21.90
30	1314	6.39	10.77	370	9.38	7.67	35.6		21.94
35	1319	6.41	10.73	370	10.24	7.68	-6.3		21.98
40	1324	6.43	10.74	370	10.51	7.76	-18.5		22.02
45	1329	6.43	10.70	370	11.25	7.75	-21.6		22.06
50	1334	6.43	10.84	370	10.59	7.81	-19.4	↓	22.10
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: clear
Wind Speed 5-10
Wind Direction SE
Outlook: Sunny (Cloudy)
Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS/ N Adams

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107BR	1330	8/9/19	1425	8/9/19		44.42.572	069.51.689

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.48	34.10	30.25	83	250	45	11250	2"	0.021925

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1339	7.03	18.16	759	41.2	6.46	-70.6	250	22.00
5	1344	6.51	14.23	831	12.0	1.79	-117.1		
10	1349	6.55	14.43	851	9.40	1.19	-125.4		
15	1354	6.56	14.25	859	8.57	0.99	-128.3		
20	1359	6.58	14.50	864	7.83	0.86	-130.0		
25	1404	6.60	14.51	868	7.35	0.80	-131.4		
30	1409	6.62	14.57	872	7.02	0.74	-132.8		
35	1414	6.62	14.85	876	6.81	0.64	-133.2		
40	1419	6.60	15.02	882	6.30	0.63	-131.9		
45	1424	6.59	15.10	886	6.08	0.62	-130.4	↓	↓
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction W

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/9/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	Turb:	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	DO:	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	Drawdown:	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107CR	1312	8/9/19	1322	8/9/19		44.42.572	069.51.090

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.34	52.30	47.60	249	50	5	250	2"	0.06565

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1314								
Purge Stop	1319								
Pre Sample	1320	7.68	24.71	446	5.67	5.80	117.0	50	23.07
Post Sample	1438	7.74	23.38	398	5.72	5.95	-82.6	50	27.16

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction W

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/9/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310AW	1105	8/20/19	1114	8/20/19		44.43.079	069.51.089

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
5.69	17.45	10.20	43	50	1	50	2"	0.011275

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1110								
Purge Stop	1111								
Pre Sample	1112	7.24	19.77	158	0.53	7.05	190.5	50	6.00
Post Sample	1325	7.75	21.75	177	0.00	8.26	6.3	50	6.28

Sample Odor: Slight Moderate Strong (None) **Wind Speed** N/A **Outlook:** (Sunny) Cloudy

Sample Color: clear **Wind Direction** _____ **Precipitation:** Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	Yes	(No)	

Sampled by (print/sign): Katrina Aman / Katina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310C	1058	8/21/19	1025	8/21/19		44.43.080	069.51.097

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.34	63.85	55.50	4841	560	25	14000	2"	0.1278

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1059	7.62	10.26	162	1.79	9.07	170.7	560	4.25
5	1104	7.93	9.92	161	1.24	7.68	165.5	↓	↓
10	1109	8.06	9.74	160	0.56	7.55	162.7		
15	1114	8.26	9.53	161	0.21	7.47	161.0		
20	1119	8.30	9.50	161	0.28	7.49	160.1		
25	1124	8.32	9.49	161	0.14	7.45	159.0		
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Lowe; JO

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1
Temp:	+ \ - 0.1 °C
Spec Cond:	+ \ - 10% umho
ORP:	+ \ - 10% (10 millivolts Katahdin)
Comments:	* under 10 NTU's 3 readings within 1.0 NTU
Turb:	+ \ - 10% NTU *
DO:	+ \ - 10% mg/L
Drawdown:	+ \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310D	1146	8/21/19	1222	8/21/19		44.43.077	069.51.091

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
0.6	185.00	184.50	1790	50	35	1750	2"	0.4597

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1147								
Purge Stop	1232								
Pre Sample	1223	7.79	18.72	185	0.00	5.78	157.2	50	3.21
Post Sample	1243	7.65	18.09	172	0.00	10.05	114.0	50	5.25

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments: DUP-GW-04 here

Sampled by (print/sign): Agustin Lareio

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617A	1340	8/20/19	1348	8/20/19		44.42.962	069.50.885

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.41	17.86	12.70	100	40	2	80	2"	0.015725

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1343								
Purge Stop	1345								
Pre Sample	1346	7.19	20.60	352	0.00	2.29	181.0	40	6.81
Post Sample	1548	7.65	22.96	313	0.00	5.95	214.1	40	6.96

Sample Odor: Slight Moderate Strong (None)

Wind Speed N/A

Outlook: (Sunny) Cloudy

Sample Color: clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617C	1212	8/20/19	1249	8/20/19		44.42.962	069.50.890

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.06	203.74	190.10	1675	50	35	1750	2"	0.04926

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1213	7.22	22.77	157	1.96	12.89	37.3	50	14.40
5	1218	6.69	19.87	207	1.88	5.12	98.6		14.68
10	1223	6.30	18.91	267	1.24	3.11	565		14.75
15	1228	6.96	18.98	266	1.84	1.40	29.6		
20	1233	7.17	18.52	268	2.26	0.79	24.1		
25	1238	7.31	18.11	266	2.77	0.30	21.2		
30	1243	7.34	18.34	265	2.56	0.34	20.0		
35	1248	7.39	18.38	265	2.89	0.39	18.6	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed NA

Wind Direction _____

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 8/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments: Dup 03

Sampled by (print/sign): Agustin Lovpiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1	**Turb:** + \ - 10% NTU *
Temp: + \ - 0.1 °C	**DO:** + \ - 10% mg/L
Spec Cond: + \ - 10% umho	**Drawdown:** + \ - 0.5 ft per 15 min
ORP: + \ - 10% (10 millivolts Katahdin)	

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618AR	1309	8/27/19	1315	8/27/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.45	18.18	12.80	21	25	1	25	2"	0.005375

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1311								
Purge Stop	1312								
Pre Sample	1313	7.42	26.30	584	0.00	5.45	-35	25	10.84
Post Sample	1556	7.44	22.09	646	0.00	6.03	38.2	25	12.84

Sample Odor: Slight Moderate Strong (None)

Wind Speed CALM

Outlook: (Sunny) Cloudy

Sample Color: CLEAR

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/27/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS/

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618CR	1134	8/30/19	1222	8/30/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
16.17	80.53	66.50	496	~~500~~ 400	40	~~160000~~ 160000	2"	0.125825

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1141	7.22	13.01	~~10~~ 155	0.00	6.31	20.9	~~450~~ 220	16.4
5	1146	5.26	11.73	155	4.86	3.97	64.7		
10	1151	10.78	11.49	174	~~4.78~~ 4.78	2.00	20.2		
15	1156	7.40	11.51	174	4.75	1.75	-16.4		
20	1201	7.79	11.48	162	5.26	1.69	-33.9		
25	1206	7.96	11.54	157	4.82	1.64	-40.7		
30	1211	8.07	11.59	152	4.96	2.24	-45.8		
35	1216	8.09	11.59	152	4.88	2.15	-49.0	↓	↓
40	1221	8.11	11.64	148	4.82	2.09	-51.3	↓	↓
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/30/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620A	1330	8/30/19	1341	8/30/19		44.42.750	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.00	14.50	14.00	48	50	1	50	2"	0.0125

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1336								
Purge Stop	1338								
Pre Sample	1339	6.58	23.77	307	0.00	1.84	-33.7	50	9.23
Post Sample	1620	6.70	20.69	320	0.00	2.25	-40.8	50	9.56

Sample Odor: Slight Moderate Strong (None)

Wind Speed Calm

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/30/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620C	1220	8/21/19	1307	8/21/19		44.42.749	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.77	46.15	40.30	2.80	110	35	3850	2"	0.07397

	Time	pH	°C	Spec Cond	Turbidity	D.O.	EH	FLOW	P.Static
0	1231	7.75	14.17	195	0.00	8.86	20.2	110	11.38
5	1236	6.38	13.87	191	0.00	6.23	59.8		
10	1241	6.75	13.87	191	0.00	5.50	45.3		
15	1246	7.24	13.85	191	0.00	5.06	30.0		
20	1251	7.46	13.88	191	0.00	4.70	23.7		
25	1256	7.64	14.04	190	0.00	3.95	17.1		
30	1301	7.78	14.15	190	0.00	3.47	11.8		
35	1306	7.90	14.05	191	0.00	3.36	8.5	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust	(Yes)	No	

See Well Information Form for more comments

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1 **Turb:** + \ - 10% NTU *
Temp: + \ - 0.1 °C **DO:** + \ - 10% mg/L
Spec Cond: + \ - 10% umho **Drawdown:** + \ - 0.5 ft per 15 min
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
624B	1320	8/28/19	1402	8/28/19		44.42.507	069.51.074

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.03	28.65	24.05	142	450	40	18000	2"	0.03753

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1321	6.53	12.60	579	7.65	5.17	-15.2	450	9.44
5	1326	6.28	10.76	566	8.53	0.20	-6.0		9.58
10	1331	5.75	10.49	570	11.3	0.23	12.0		9.62
15	1336	6.14	10.31	563	5.52	0.43	-13.4		
20	1341	6.35	10.37	558	5.76	0.51	-26.0		
25	1346	6.46	10.35	555	5.90	0.55	-32.3		
30	1351	6.56	10.38	553	5.48	0.57	-37.6		
35	1356	6.61	10.36	553	5.22	0.58	-40.9		
40	1401	6.63	10.30	553	5.17	0.55	-42.1		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: Calm
Wind Direction:
Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/28/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: Yes (No)
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lovero

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
626B	1108	8/28/19	1156	8/28/19		44.42.471	069.50.984

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.34	21.00	18.00	45	100	40	4000	2"	0.0119

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	~~1100~~ 1115	5.93	22.04	82	11.8	5.71	135.0	100	13.34
5	1120	5.87	20.39	79	6.88	4.79	-60.4		
10	1125	5.87	20.12	65	6.56	2.35	-56.5		
15	1130	~~5~~.93	~~20~~ 19.97	64	5.85	2.17	-53.5		
20	1135	5.96	19.92	65	5.54	2.10	81.1		
25	1140	5.96	19.68	65	5.86	1.94	56.1		
30	1145	5.96	19.64	65	5.90	1.89	46.9		
35	1150	5.97	19.75	65	5.81	1.80	43.8		
40	1155	5.98	19.83	65	5.62	1.87	41.0		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed Calm
Wind Direction _____
Outlook: ~~Sunny~~ Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 8/28/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Agustin Lavero

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
627A	~~1349~~ 1436	8/8/19	1450	8/8/19		44.42.338	069.51.022

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.78	59.35	53.90	975	50	10	500	2"	0.1253

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1438								
Purge Stop	1448								
Pre Sample	1449	7.92	19.58	150	2.12	4.41	63	50	4.28
Post Sample	1610	7.92	17.90	148	6.00	6.71	19.2	50	6.00

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SE

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
628A	1358	8/8/19	1415	8/8/19		44.42.310	069.51.032

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.28	54.00	49.30	426	50	9	450	2"	0.11255

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1403								
Purge Stop	1412								
Pre Sample	1413	7.67	19.83	175	1.42	6.04	19.8	50	4.77
Post Sample	1543	8.01	18.24	167	0.00	2.81	9.0	50	5.00

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SE

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	(No)

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629B	1150	8/8/19	~~1258~~	~~8/8/19~~		44.42.634	069.51.122

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
~~18.98~~ 18.23	40.28	38.80	195	120	55	6600	2"	~~0.05095~~ 0.047278

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1202	7.50	17.65	165	1.81	9.59	42.5	120	18.27
5	1207	7.13	17.34	164	1.57	6.35	58.9		
10	1212	6.93	17.55	163	4.09	5.23	59.0		
15	1217	7.72	17.56	163	4.53	3.60	21.8		
20	1222	7.91	17.87	164	4.63	3.12	12.9		
25	1227	7.87	17.33	164	4.99	3.06	16.4		
30	1232	7.95	17.13	163	5.78	2.80	14.2		
35	1237	7.87	16.79	162	5.94	2.67	15.0		
40	1242	7.94	17.40	163	7.13	2.62	8.6		
45	1247	8.00	17.50	163	6.70	2.21	3.8		
50	1252	8.01	16.92	163	7.10	2.25	5.0		
55	~~1255~~ 1257	7.80	16.15	162	7.52	2.44	4.5		
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed ~~5~~ 5-10

Wind Direction S SE

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: DUP-GW-02 taken here

Sampled by (print/sign): Katrina Aman / Kat

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629E	1117	8/8/19	1130	8/8/19		44.42.634	069.51.121

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
16.18	25.10	22.50	60	50	2	~~19.7~~ 100	2"	0.0158

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1125								16.78
Purge Stop	1127								
Pre Sample	1128	6.78	21.39	250	19.2	7.40	62.4	50	~~17.78~~
Post Sample	1305	7.34	21.58	248	5.60	7.45	~~57~~ 32.1	↓	20.88

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SE

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630B	1438	8/7/19	1523	8/7/19		44.42.708	069.51.200

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.81	57.10	54.60	329	360	40	14400	2"	0.036975

	Time	pH	°C	Spec Cond	Turbidity	D.O.	EH	FLOW	P.Static
0	1442	7.42	13.75	163	0.63	5.00	36.3	360	20.93
5	1447	7.77	13.13	162	0.43	4.01	34.6		21.34
10	1452	8.21	12.74	162	0.43	2.21	16.2		21.56
15	1457	8.31	12.86	161	0.96	1.43	3.7		
20	1502	8.44	13.06	161	4.56	1.18	-16.3		
25	1507	8.46	13.14	162	3.88	1.10	-22.5		
30	1512	8.47	13.24	162	5.37	1.01	-26.1		
35	1517	8.48	13.43	161	6.10	0.99	-30.7		
40	1522	8.47	13.04	161	4.36	0.92	-32.4		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: CALM

Wind Direction:

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

See Well Information Form for more comments

Sampled by (print/sign): Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	Turb:	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	DO:	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	Drawdown:	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630E	1425	8/7/19	1434	8/7/19		44.42.705	069.51.195

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.27	15.00	12.50	22	48	1	48	2"	0.005575

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1430								
Purge Stop	1431								
Pre Sample	1432	6.13	22.37	191	0.63	2.97	54.0	48	10.67
Post Sample	1556	6.54	22.40	183	1.29	2.18	52.6	48	11.23

Sample Odor: Slight Moderate Strong (None)

Wind Speed CALM

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1008BR2	1152	8/19/19	1240	8/19/19		44.42.930	069.51.129

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.96	63.05	60.00	436	90	30	2700	2"	0.1151

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1208	7.77	15.32	139	0.00	6.40	-153.1	90	14.43
5	1213	7.99	15.60	138	0.00	6.09	-176.1	↓	↓
10	1218	8.17	15.56	137	0.00	6.00	-179.4		
15	1223	8.27	15.15	137	0.00	5.96	-151.3		
20	1228	8.34	14.94	136	0.00	5.80	-161.7		
25	1233	8.42	15.08	136	0.00	5.81	-158.0		
30	1238	8.44	14.85	136	0.00	5.86	-154.0	↓	↓
35	~~1243~~								
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	Turb:	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	DO:	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	Drawdown:	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1008ER2	1133	8/19/19	1144	8/19/19		44.42.931	069.51.130

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.55	18.95	16.50	56	50	2	100	2"	0.014875

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1139								
Purge Stop	1141								
Pre Sample	1142	6.82	20.43	523	000	3.62	190.8	50	10.84
Post Sample	1330	7.28	21.09	541	0.00	5.92	-7.6	50	11.12

Sample Odor: Slight Moderate Strong (None)

Wind Speed Calm

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1040B	8/28/19	1429	1456	8/28/19		44.42.533	069.51.113

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
11.39	24.00	15.20	31	180	25	4500	2"	0.008275

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1430	7.58	14.20	151	6.41	5.89	-15.6	180	12.38
5	1435	6.44	13.04	146	5.96	1.41	0.5	↓	↓
10	1440	6.32	12.50	146	5.22	1.00	-6.3		
15	1445	6.31	12.33	145	4.85	0.65	-9.7		
20	1450	6.29	12.07	145	5.17	0.64	-10.9		
25	1455	6.29	11.99	145	5.04	0.62	-11.4		
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed: CALM
Wind Direction: _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/28/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No) **Comments:**
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1041B	1223	8/20/19	1321	8/20/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
~~7.23~~	18.30	14.98	73	100	40	4000	2"	0.019375

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1240	6.60	~~6~~ 21.62	297	0.25	8.39	200.5	100	*
5	1245	6.50	21.31	275	0.00	7.74	204.3		
10	1250	6.28	20.86	327	0.53	6.07	213.0		
15	1255	6.13	20.50	390	0.70	4.69	209.9		
20	1300	6.10	20.42	433	0.56	4.01	208.6		
25	1305	6.10	20.37	445	0.44	3.60	209.1		
30	1310	6.09	20.09	464	0.71	3.39	212.2		
35	1315	6.10	20.15	467	0.68	3.68	213.3		
40	1320	6.10	20.16	470	0.71	3.68	216.8	↓	
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed N/A Calm
Wind Direction _____
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 8/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: (Yes) No
Well Clearly Labeled:
Outside: (Yes) No
Inside: Yes (No)
Cap free of rust: (Yes) No

Comments: * Unable to measure "DTW" because casing is on 45 degree angle.
Flow rate is based on historical info, 100mL/min (5/17)

Sampled by (print/sign): Katrina Aman / Katahdin

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1134B	1520	8/27/19	1541	8/27/19		44.42.259	069.49.839

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
23.99	278.83	277.50	2399	300	35	10500	2"	0.633775

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1505	8.02	11.60	231	0.00	5.13	33.4	300	24.65
5	1510	7.35	10.62	226	0.00	3.27	46.4		
10	1515	7.54	10.18	225	0.00	2.15	51.7		
15	1520	7.72	10.03	233	0.00	1.40	34.9		
20	1525	7.89	10.00	231	0.00	1.31	20.7		
25	1530	7.99	9.92	229	0.00	1.33	12.5		
30	1535	8.04	9.91	230	0.00	1.30	6.9		
35	1540	8.12	9.89	230	0.00	1.26	1.6	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed calm

Wind Direction _____

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 2020+ (circle one)

Calibration: See calibration sheet dated: 8/27/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	Turb:	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	DO:	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	Drawdown:	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
TRANS	NA	NA	1510	8/9/19		44.43.165	069.51.078

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
NA	NA	NA	NA	NA	NA	NA	2"	NA

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
/5	1509	8.65	10.90	135	4.46	3.39	-179.1	N/A	N/A

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction W

Precipitation: Yes (No)

Purge comments:

Equipment Needed:

Meters YSI (w/flow cell) & Lamotte

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/9/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Nick Adams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W9-1E	8/21/19	1017	1022	8/21/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.28	18.00	15.50	115	50	3	150	2"	0.0303

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1018								
Purge Stop	1021								
Pre Sample	1022	6.94	18.30	2.91	4.14	4.02	206.0	50	3.80
Post Sample	1247	7.36	21.27	268	0.00	~~6.00~~ 5.15	149.7	50	5.12

Sample Odor: Slight Moderate Strong (None)

Wind Speed Calm

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	Yes	(No)
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments:

Sampled by (print/sign): Agustin Lakeiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W9-2E	1010	8/21/19	1018	8/21/19		44.42.830	069.51.340

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.38	20.10	17.60	106	50	2	100	2"	0.02805

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1014								
Purge Stop	1016								
Pre Sample	1017	6.47	17.46	267	0.00	5.78	102.0	50	6.73
Post Sample	~~1~~ 1200	7.00	17.72	226	0.00	3.47	71.0	50	10.68

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/21/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1B	1457	8/5/19	1603	8/5/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
22.91	39.84	34.00	105	200	50	10000	2"	0.027725

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1512	8.55	10.69	167	0.00	7.52	37.0	200	23.12
5	1517	7.93	10.43	162	0.00	4.58	53.6		
10	1522	8.28	10.36	160	0.00	3.81	36.1		
15	1527	8.42	10.09	158	0.00	2.59	19.9		
20	1532	8.49	10.11	157	0.00	2.14	10.4		
25	1537	8.49	9.98	157	0.00	2.04	-0.6		
30	1542	8.51	10.06	157	0.00	1.86	-11.1		
35	1547	8.56	9.91	155	0.00	1.78	-20.1		
40	1552	8.56	9.78	159	0.00	1.81	-32.9		
45	1557	8.63	9.74	158	0.00	1.66	-37.2		
50	1602	8.67	9.72	158	0.00	1.68	-40.2		
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 5.10
Wind Direction NW
Outlook: (Sunny) Cloudy
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \- 0.1
Temp: + \- 0.1 °C
Spec Cond: + \- 10% umho
ORP: + \- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \- 10% NTU *
DO: + \- 10% mg/L
Drawdown: + \- 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1ER	1432	8/5/19	1439	8/5/19		44.42.742	069.50.578

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.69	19.56	17.06	32	50	1	50	2"	0.008425

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1435								
Purge Stop	1436								
Pre Sample	1437	6.80	25.55	258	2.47	5.18	-115.8	50	14.03
Post Sample	1556	7.35	29.29	264	26.2	6.45	-148.1	50	17.15

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: CLEAR

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: ~~Well is pushing up from ground. Stands over 6'~~

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-2E	~~1424~~ 1135	~~8/5/19~~ 8/7/19	~~1432~~ 1148	~~8/5/19~~ 8/7/19		44.42.676	069.50.479

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
~~10.26~~ 10.51	14.93	11.75	~~14~~ 12	~~24~~ 28	~~1~~ 1	~~24~~ 28	2"	~~0.0037~~ 0.0031

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	~~1438~~ 1143		22.87	233	0.60	4.97	71.2		10.99
Purge Stop	~~1424~~ 1144								
Pre Sample	~~1430~~ 1145	~~8.05~~	~~30.07~~	~~230~~	~~0.00~~	~~4.80~~	~~44.0~~	~~24~~ 28	~~10.94~~
Post Sample	1450	7.82	25.83	233	3.99	7.10	-172.3	28	12.19

Sample Odor: Slight Moderate Strong (None)

Wind Speed S-10

Outlook: (Sunny) Cloudy

Sample Color: CLEAR

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) ~~650~~ (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-3E	1351	8/5/19	1358	8/5/19		44.42.675	069.50.780

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.27	18.09	15.10	75	50	2	100	2"	0.019525

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1353								
Purge Stop	1355								
Pre Sample	1356	7.23	24.76	310	4.01	7.04	-46.5	50	7.68
Post Sample	1515	7.49	24.53	288	5.16	7.98	-146.5	50	12.63

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: CLEAR

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-4E	1200	8/5/19	1207	8/5/19		44.42.594	069.50.713

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.88	37.37	35.45	129	50	3	150	2"	0.035925

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1201								
Purge Stop	1204								
Pre Sample	1205	7.60	27.52	565	1.03	4.18	149.3	50	22.77
Post Sample	1331	7.29	31.43	563	4.78	5.90	177.3	50	27.07

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: CLEAR

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS/

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5B	1230	8/5/19	1338	8/5/19		44.42.527	069.50.560

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
28.58	62.79	60.04	298	300	55	16,500	2"	0.07865

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1242	8.15	15.77	153	~~1.00~~	3.41	32.8	300	28.72
5	~~12~~1247	7.28	15.54	151	~~2.08~~	2.46	80.2		
10	1252	7.57	15.61	152	~~2.59~~ 0	1.66	51.0		
15	1257	7.91	15.77	153	~~2.40~~	1.51	33.7		28.91
20	1302	8.07	15.49	146	~~2.30~~	1.35	22.3		28.95
25	1307	8.31	15.69	152	~~2.36~~ 0	1.20	15.4		
30	1312	8.38	15.78	146	~~2.51~~ 0	1.10	9.6		
35	1317	8.48	15.85	149	0.00	1.01	5.8		
40	1322	8.47	15.88	146	0.00	0.97	5.2		
45	1327	8.49	16.06	146	0.00	1.04	3.7		
50	1332	8.49	15.98	149	0.00	1.21	3.16		
55	1337	8.54	15.95	146	0.00	1.02	3.0		
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction NW

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): KATRINA AMAN

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5E	1225	8/5/19	1234	8/5/19		44.42.527	069.50.563

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
15.057	25.98	23.90	79	50	2	100	2"	0.020825

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1229								
Purge Stop	1231								
Pre Sample	1232	8.41	24.14	177	0.64	2.37	54.3	50	15.95
Post Sample	1345	8.42	22.89	171	0.00	1.54	38.1	50	17.47

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): KATRINA AMAN

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1	**Turb:** + \ - 10% NTU *
Temp: + \ - 0.1 °C	**DO:** + \ - 10% mg/L
Spec Cond: + \ - 10% umho	**Drawdown:** + \ - 0.5 ft per 15 min
ORP: + \ - 10% (10 millivolts Katahdin)	

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-6E	1247	8/5/19	1255	8/5/19		44.42.559	069.30.474

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
16.55	23.49	21.25	~~64~~ 45	50	2	100	2"	0.04675 0.1175

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1250								
Purge Stop	1252								
Pre Sample	1253	6.39	22.97	536	3.75	5.51	128.4	50	17.05
Post Sample	1407	6.42	26.26	270	2.63	6.32	-83.6	50	18.50

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/5/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-1B	1115	8/7/19	1320	8/7/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.79	22.50	20.00	97	308	55	16940	2"	0.025525

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1224	6.67	11.56	213	2.96	2.58	101.6	308	9.91
5	1229	5.08	10.13	212	2.13	0.92	131.4		
10	1234	6.17	10.29	209	1.65	0.79	70.9		
15	1239	6.62	10.15	210	0.04	0.90	43.3		
20	1244	6.71	9.80	209	0.48	0.89	37.3		
25	1249	7.03	9.82	210	0.47	0.70	17.4		
30	~~1300~~ 1254	7.36	9.91	209	0.31	0.62	-0.3		
35	1259	7.48	9.90	208	0.00	0.56	-6.0		
40	1304	7.57	9.80	209	0.03	0.71	-10.4		
45	1309	7.65	9.69	209	0.19	0.54	-16.7		
50	1314	~~8~~ 7.61	9.58	208	0.26	0.59	-16.7		
55	1319	7.66	9.65	209	0.22	0.66	-18.1	↓	↓
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 5-10

Wind Direction NW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1
Temp:	+ \ - 0.1 °C
Spec Cond:	+ \ - 10% umho
ORP:	+ \ - 10% (10 millivolts Katahdin)
Comments:	* under 10 NTU's 3 readings within 1.0 NTU
Turb:	+ \ - 10% NTU *
DO:	+ \ - 10% mg/L
Drawdown:	+ \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-1E	1405	8/7/19				44.42.543	069.50.267

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
13.55	13.55	11.05					2"	

	Time
Purge Start	

Purge Stop		PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Pre Sample									
Post Sample									

Sample Odor: Slight Moderate Strong None **Wind Speed**_____ **Outlook:** Sunny Cloudy

Sample Color:_____ **Wind Direction**_____ **Precipitation:** Yes No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 650 (circle one)
Lamotte 2020 2020+ (circle one)

Calibration: See calibration sheet dated:_____

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: Well is dry. NO Sample taken

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-2E	1450	8/6/19	1501	8/6/19		44.42.498	069.50.180

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.02	13.41	10.91	28	50	1	50	2"	0.007225

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1457								
Purge Stop	1458								
Pre Sample	1459	7.59	15.89	42	3.46	9.79	52.4	50	8.25
Post Sample	1610	6.73	25.12	31	1.96	5.78	59.4	50	8.39

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 10-15

Wind Direction S

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 8/6/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-3E	1210	8/6/19	1232	8/6/19		44.42.486	069.50.435

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
5.95	13.70	11.20	450	50	1	50	2"	0.013 ms

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1228								
Purge Stop	1229								
Pre Sample	1230	6.76	21.28	354	0.00	3.25	167.2	50	6.11
Post Sample	1418	7.68	25.97	386	1.68	5.64	62.2	50	7.57

Sample Odor: Slight Moderate Strong (None)

Wind Speed CALM

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/6/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Katrina Aman /Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: **Waste Management Crossroads Landfill, Norridgewock, Maine**

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-4B	~~1324~~	8/6/19	1410	8/6/19		44.42.422	069.50.303

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.18	42.70	40.20	199	292	35	10220	2"	0.0C255

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1334	7.66	14.04	1606	0.00	2.63	78.2	292	19.21
5	1339	7.65	14.06	165	0.00	1.77	77.1		
10	1344	7.86	13.65	165	0.00	0.94	57.6		
15	1349	8.02	13.85	163	0.00	0.73	44.9		
20	1354	8.07	13.86	165	0.00	0.75	37.5		
25	1359	8.12	13.81	165	0.00	0.59	29.9		
30	1404	8.14	13.80	163	0.00 ~~0.00~~	0.54	28.2		
35	1409	8.15	13.85	165	0.34	0.48	25.8	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed CALM

Wind Direction _____

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/6/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-4E	1304	8/6/19	1312	8/6/19		44.42.422	069.50.302

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.05	13.45	10.95	22	50	1	50	2"	0.00575

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1308								
Purge Stop	1309								
Pre Sample	1310	6.41	21.01	193	000	3.12	90.8	50	9.16
Post Sample	1557	6.55	21.66	203	3.18	3.53	62.1	50	11.10

Sample Odor: Slight Moderate Strong (None)

Wind Speed CALM

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/6/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-5E	14.06	8/19/19	1454	8/19/19		44.42.442	069.50.371

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
11.27	20.70	14.50	31	330	40	13200	2"	0.008075

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1412	7.48	14.49	251	0.00	1.22	-23.6	330	11.43
5	1417	7.10	13.38	~~328~~ 329	0.00	0.28	-178.6	|	|
10	1422	7.00	13.26	330	0.00	0.22	-117.6	|	|
15	1427	7.01	13.04	329	0.00	0.26	-52.1	|	|
20	1432	6.99	13.07	329	0.00	0.28	-48.3	|	|
25	1437	6.90	13.52	330	0.00	0.31	-29.2	|	|
30	1442	6.82	13.25	330	0.00	0.31	-12.3	|	|
35	1447	6.81	13.19	330	0.00	0.32	-11.1	|	|
40	1452	6.80	13.18	330	0.00	0.33	-7.8	V	V
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	~~Yes~~	(No)
Locked:	~~Yes~~	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

LEACHATE COLLECTION SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	Comments Odor / Color	GPS	NORTH:	WEST:
8ALC	1130	8/28/19	7.38	25.32	18085	43.9	4.59	41.3	STRONG BROWN			
8BLC	1230	8/28/19	7.59	27.23	23946	5.48	3.14	-12.8	STRONG BROWN			
8CLC	1245	8/28/19	7.55	27.34	15158	38.1	2.53	7.8	STRONG BROWN			
11ALC												
11BLC												
11CLC												
TANK	1315	8/28/19	7.81	27.72	15344	16.0	4.48	42.3	STRONG BROWN			

Sample Odor: Slight Moderate Strong None

Sample Color: _____

Wind Speed _____

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes No

Comments: See Comments above for Sample Odor & Color

Equipment Needed:

Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 8/28/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): NICK ADAMS / N Adams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

WICK DRAIN & TANK SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	EH	FIELD ALK	Comments Odor	Comments Color	GPS	NORTH:	WEST:
8BCWD	1415	8/30/19	6.19	25.35	1060	0.00	0.89	-73.1	—	Slight	Yellowish			
TANK									N/A					

Sample Odor: (Slight) Moderate Strong None **Wind Speed** Calm **Outlook:** (Sunny) Cloudy

Sample Color: Yellowish **Wind Direction** _____ **Precipitation:** Yes (No)

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/30/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Katrina Aman/Katrina

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

LEACHATE DETECTION SAMPLING LOG: SPECIFIC CONDUCTANCE ONLY

Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	Spec Cond
123LD	1305	8/27/19	3528
1LD	~~15~~ 1252	8/27/19	4555
2LD	1245	8/27/19	1799
3LD	1258	8/27/19	12301
4ABLD	DRY	8/27/19	DRY
4ALD	DRY	8/27/19	DRY
4BLD	DRY	8/27/19	DRY
45SD	1436	8/27/19	1847
5ABLD	DRY	8/27/19	DRY
5ALD	DRY	8/27/19	DRY
5BLD	DRY	8/27/19	DRY
7LD	1405	8/27/19	8309
9ABCLD	1429	8/28/19	4932
9ALD	~~1428~~ 1427	8/27/19	1307
9BLD	1410	8/27/19	5614
9CLD	1418	8/27/19	7826
10ABLD	1230	8/27/19	15034
10ALD	1225	8/27/19	2558
10BLD	~~238~~ 1220	8/27/19	23861 → 8/28/19 17218
11ABCLD	1342	8/27/19	7360
11ALD	1335	8/27/19	2410
11BLD	1330	8/27/19	25620 → 8/28/19 3125
11CLD	1340	8/27/19	1117
12ABLD	1356	8/27/19	1001
12ALD	1350	8/27/19	1472
12BLD	1353	8/27/19	218

*Set up 45SD first thing, drips slowly

Sampled by (print/sign): NICK ADAMS / [signature]

Katahdin Analytical Services

SURFACE WATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW Ft. / Sec	Top of Stake	Comments Odor	Comments Color	GPS	NORTH:	WEST:
SW-A	1024	8/22/19	6.65	19.44	276	~~19~~ 19.5	8.15	174.4	slow	2.0	None	Clear			
SW-B	1045	8/22/19	7.06	19.21	73	11.1	11.02	72.8	Slow	1.5	none	clear		44.42.566	069.50.749
SW-C	1100	8/22/19	5.15	19.14	42	3.24	6.94	219.8	fast	0.6	none	yellow		44.42.440	069.50.449
SW-101	1120	8/22/19	5.04	20.63	44	16.2	8.96	192.9	~~strong~~ Slow	1.1	None	Yellow		44.42.597	069.50.368
SW-102	1230	8/22/19	6.36	22.16	105	18.4	6.67	135.1	Slow	1.2	none	Yellowish		44.42.785	069.50.663
SW-201	1215	8/22/19	6.53	21.66	66	11.2	8.56	130.1	St.11	0.0	None	clear			
SW-203	955	8/22/19	7.03	20.35	82	2.31	10.01	193.1	~~slow~~ Slow	2.0	none	yellowish		44.42.321	069.51.015
DUP → SW-204	1140	8/22/19	5.97	22.98	79	3.29	7.66	180.5	~~slow~~ Fast	1.3	None	Yellowish		44.42.548	069.51.154
SW-801	940	8/22/19	7.34	22.49	107	6.22	9.27	174.0	Slow	1.0	None	clear		44.42.377	069.51.013
SW-9	1310	8/22/19	6.03	24.51	54	7.51	7.65	141.7	St.11	0.0	Slight	yellow		44.42.617	069.51.094
DUP-SW-01	1140	8/22/19	5.97	22.98	79	3.29	7.66	180.5	~~slow~~ Fast	1.3	NONE	Yellowish		44.42.506	069.51.241

Sample Odor: slight Moderal Strong None **Wind Speed** calm **Outlook:** (Sunny) Cloudy

Sample Color: _____ **Wind Direction** _____ **Precipitation:** Yes (No)

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 8/22/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Katrina Aman / Katrina

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads

DATE: 8/5/19

PROJECT NUMBER:

SAMPLER: NA, KA

MODEL: 556

SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
855		7.01		13.84
857			3.72	14.93

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
13.84	1498	859

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
14.38	253.1	904

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: LaMotte 2020i

SERIAL NO.: 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10 → 11.0 → 10.00	
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: [signature] Date: 8/5/19

QC'd By: Date:

DO 910 108.1 @ 13.9

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 8/5/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 600 SERIAL NO.:

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1203		7.01		23.95
1208			4.03	26.02

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
25.93	1413	1213

Calibration Solution Lot Number: 0928

Calibration Range for Solution 1413

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
27.28	237.5	1217

Calibration Solution Lot Number: 2067

Calibration Range for Solution 240

MODEL: ORION STAR 2020 SERIAL NO.:

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	1.27 → 1.00	1220
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/5/19

QC'd By: Date:

DO = 100.1 @ 32.48 1225

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/6/19

PROJECT NUMBER: SAMPLER: K. Aman

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1121			4.56	22.55
1125		6.92		22.56

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
21.73	1381	1130

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.58	228.1	1133

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: **SERIAL NO.:**

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.75	11.15
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/6/19

QC'd By: Date:

DO 1136 94.6 @ 21.66

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 8/7/19

PROJECT NUMBER: SAMPLER:

MODEL: YSI ~~556~~ 650 MDS SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1037		7.01		22.43
1043			4.01	22.70

Buffer Lot Numbers: pH 4: 0735 pH 7: 0748 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
23.46	1413	1048

Calibration Solution Lot Number: 0928

Calibration Range for Solution 1413

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
24.17	~~241.5~~	1103
	237.5	

Calibration Solution Lot Number: 2062

Calibration Range for Solution 240

MODEL: CAM TPF 2020 SERIAL NO.:

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.78	1114
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/7/19

QC'd By: Date:

DO = 99.4 @ 26.80

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/7/19

PROJECT NUMBER: SAMPLER: Katrina Aman

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1051			3.95	22.67
1055		7.00		22.56

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
22.71	1433	1058

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.14	262.2	1102

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: Lamotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 1.0	0.49 → 1.00	1100
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Katrina Date: 8/7/19

QC'd By: Date:

DO
1110 time 88.1 → 100.0 reading 24.24 temp

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Cross 2040S DATE: 8/8/19

PROJECT NUMBER: SAMPLER: AD Arms

MODEL: YSI 450 MDS SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1157		7.01		24.73
1207			4.01	26.05

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
24.33	1413	1211

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.99	237.5	1217

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: Thermo Orion 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.91 → 10.00	1223
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/8/19

QC'd By: Date:

1220 DO = 99.5 @ 29.07

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/8/19

PROJECT NUMBER: SAMPLER: Katrina Aman

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1055			4.02	22.75
1057		7.04		22.16

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
22.60	1407	1100

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
22.78	234.9	1102

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	13.7 → 10.00	1110
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Katrina Date: 8/8/19

QC'd By: Date:

DO
1110 time
107.3 → 100.0 reading
23.44 temp

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/9/19

PROJECT NUMBER: _____ SAMPLER: NA

MODEL: YSI 650 MDS SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1005		7.11		14.66
1010			4.07	14.98

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
1009	1417	1014
14.56		

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
1020	252.6	1020
14.05		

Calibration Solution Lot Number: 0928 **Calibration Solution Lot Number:** 2062

Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: LaMotte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10 → 11.4 → 10.00	
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 8/9/19

QC'd By: _____ Date: _____

DO 1026 94.6 @ 14.68

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/19/19

PROJECT NUMBER: SAMPLER: K. Aman

MODEL: YSI 650 MDS SERIAL NO.: 02H002121AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1111			4.11	23.41
1114		6.94		23.163

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
23.84	1440	1116

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.83	236.8	1119

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062 Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 110419

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.83 → 10.00	1115
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Katie Date: 8/19/19

QC'd By: Date:

DO 102.5 @ 23.47°C 1125

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/20/19

PROJECT NUMBER: SAMPLER: K. Aman

MODEL: YSI 650 MDS SERIAL NO.:

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1029			4.07	22.87
1031		6.96		~~22~~ 24.28

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
22.39	1443	1037

Calibration Solution Lot Number: 0928

Calibration Range for Solution 1413

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.37	239.6	1041

Calibration Solution Lot Number: 2062

Calibration Range for Solution 240

MODEL: SERIAL NO.:

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	13.3	1037
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/20/19

QC'd By: Date:

DO 1043 24.43 100.6

time temp reading

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/20/19

PROJECT NUMBER: SAMPLER: Agustin Lopez

MODEL: 556 MPS SERIAL NO.: 05131901 AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1020		6.99		25.21
1025			4.01	25.24

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
26.40	1455	1027

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
30.83	227.3	1030

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	12.9 → 10.00	1036
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/20/19

QC'd By: Date:

DO Time 1040
139.9 @ 33.08 → 100.0

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/21/19

PROJECT NUMBER: SAMPLER: Agustin Loureiro

MODEL: 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
928		7.10		20.78
932			4.04	20.49

Buffer Lot Numbers: pH 4: 0735 pH 7: 0748 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
20.32	12.69	935

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
20.65	231.4	938

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 2062 Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.52 → 10.00	950
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/21/19

QC'd By: Date:

DO 948 104.5 @ 22.37

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/~~22~~21/19

PROJECT NUMBER: SAMPLER: K. Amao

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
929			4.09	20.07
932		6.98		21.23

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
20.90	1448	939

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.34	250.3	944

Calibration Solution Lot Number: 2062
Calibration Range for Solution 1413

Calibration Solution Lot Number: 0928
Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	11.4 → 10.00	948
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Katrina Lee Date: 8/~~22~~21/19

QC'd By: Date:

DO 946 time 84.0→100.0 21.05 reading temp

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/22/19

PROJECT NUMBER: SAMPLER: K. Aman

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
940			3.99	21.20
943		7.01		21.38

Buffer Lot Numbers: pH 4: 0725 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
21.28	1647	946

Calibration Solution Lot Number: 0928
Calibration Range for Solution 1413

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
21.15	237.5	948

Calibration Solution Lot Number: 2062
Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	3.2 → 10.00	951
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/22/19

QC'd By: Date:

DO 23.43 temp 105.2 reading 952 time

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/27/19

PROJECT NUMBER: SAMPLER: K. Arman

MODEL: 556 MPS SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1124		7.10		22.56
1129			3.58	23.51

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
22.82	1413	1132

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.03	238.6	1135

Calibration Solution Lot Number: 0928 Calibration Range for Solution 1413

Calibration Solution Lot Number: 200 2062 Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	12.6 -910.00	1140
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/27/19

QC'd By: Date:

DO 1139 132.6 = 100.0 21.43
time reading temp

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 8/30/19

PROJECT NUMBER: SAMPLER: AL

MODEL: 451 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
927		7.28		14.98
930			4.04	15.22

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
14.77	1438	933

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
15.10	256.1	936

Calibration Solution Lot Number: 2062
Calibration Range for Solution 413

Calibration Solution Lot Number: 0928
Calibration Range for Solution 240

MODEL: LAMOTTE 2020; **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10 → 11.4 → 10.00	
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/30/19

QC'd By: Date:

DO 944 98.4 @ 15.61

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Cross roads DATE: 8/28/19

PROJECT NUMBER: SAMPLER: AL

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
942		7.31		15.60
944			4.08	15.44

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
~~947~~ 15.6	1511	947

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
~~15.0~~ 15.08	242.6	950

Calibration Solution Lot Number: 2062 **Calibration Solution Lot Number:** 0928

Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: LAMOtte 2020i **SERIAL NO.:** 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10 → 10.8 → 10.00	
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 8/28/19

QC'd By: Date:

DO 958 101.6 @ 15.67

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 8/28/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 650 MDS SERIAL NO.: 02H002174

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1105		7.01		24.37
1110			4.01	26.30

Buffer Lot Numbers: pH 4: 0735 pH 7: 0798 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
25.54	1413	1118

Calibration Solution Lot Number: 0M0928

Calibration Range for Solution 1413

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
25.44	237.5	1125

Calibration Solution Lot Number: 2062

Calibration Range for Solution 240

MODEL: LAMOTTE 2020i SERIAL NO.: 11049

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10 → 11.2 → 10.00	1100
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: D Adams Date: 8/28/19

QC'd By: Date:

1130 DO = 100.2 @ 28.29

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
101C	1302	11/8/19	1344	11/8/19		44.42.713	069.50.827

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
1807	54.75	49.05	293	110	40	4400	2"	0.07745

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1303	7.10	7.33	172	2.10	5.51	-46.9	110	1809
5	1308	7.17	7.61	162	1.79	2.96	-86.1		
10	1313	7.23	7.68	165	1.94	2.41	-102.6		
15	1318	7.28	7.75	166	2.04	2.06	-116.4		
20	1323	7.40	7.76	164	1.90	1.58	-128.0		
25	1328	7.51	7.78	164	1.85	1.25	-134.4		
30	1333	7.59	7.68	164	1.68	1.16	-138.1		
35	1338	7.65	7.44	163	1.61	1.09	-140.6		
40	1343	7.68	7.48	163	1.52	1.06	-141.5		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: 0-4

Wind Direction: NW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

See Well Information Form for more comments

Sampled by (print/sign): Agustin Lorenzo

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 0.1
Temp: +\- 0.1 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104C	1059	11/18/19	1106	11/18/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.52	28.65	24.98	175	50	4	200	2"	0.0462

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1100								
Purge Stop	1104	5.54	8.09	2.39	0.80	3.23	-86.2	50	7.57
Pre Sample	1105	8.16	4.55	191	0.36	8.18	-64.3	50	9.71
Post Sample	1251								

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: Yes (No)
Flagged: Yes (No)
Well Clearly Labeled:
Outside: Yes (No)
Inside: (Yes) No
Cap free of rust: Yes (No)

Comments:

Sampled by (print/sign): Agustin Lucero

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 r
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
104D	1103	11/19/19	1115	11/18/19		44.42.618	069.50.866

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
6.18	53.50	49.80	412	50	9	450	2"	0.10705

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1104								
Purge Stop	1113								
Pre Sample	1114	7.07	5.32	134	1.43	7.30	-72.0	50	6.92
Post Sample	1246	7.60	5.79	280	0.80	11.16	-8.3	50	8.71

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments: _____

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	Yes	(No)	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	Yes	(No)	
Inside:	(Yes)	No	
Cap free of rust:	Yes	(No)	

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106CR	1543	11/12/19	1636	11/12/19		44.42.519	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.95	36.90	32.90	123	.200	50	10000	2"	9.0332375

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1545	7.74	9.30	459	3.17	6.80	148.7	.200	20.42
5	1550	7.59	9.51	479	6.74	2.49	149.1		
10	1555	7.53	9.50	498	9.93	1.58	72.8		
15	1600	7.49	9.61	508	11.11	1.33	-12.9		
20	1605	7.48	9.58	511	11.3	1.31	-52.5		
25	1610	7.48	9.58	514	11.5	1.26	-77.1		
30	1615	7.47	9.48	517	11.2	1.20	-93.1		
35	1620	7.48	9.37	517	11.8	1.15	-104.0		
40	1625	7.47	9.32	518	11.6	1.11	-109.8		
45	1630	7.45	9.40	518	11.3	1.08	-110.5		
50	1635	7.43	9.53	519	11.0	1.09	-112.6	↓	↓
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10-15

Wind Direction NW

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/12/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS / N Adams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106DR	1440	11/12/19	1514	11/12/19		44.42.519	069.50.948

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
17.86	61.10	52.25	207	320	30	9600	2"	6.6809975

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1443	6.87	9.93	581	2.70	5.96	166.5	320	22.59
5	1448	6.88	10.39	586	1.08	2.94	165.3		23.03
10	1453	6.94	10.21	592	1.01	2.30	164.4		
15	1458	6.95	10.16	604	0.98	1.65	163.8		
20	1503	7.05	10.10	608	0.91	1.24	161.8		
25	1508	7.05	10.08	608	1.31	1.25	160.2		
30	1513	7.04	10.06	607	1.09	1.29	158.6		
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10-15

Wind Direction NW

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/12/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:
Damaged: Yes (No)
Locked: (Yes) No
Flagged: Yes (No)
Well Clearly Labeled:
Outside: (Yes) No
Inside: (Yes) No
Cap free of rust: (Yes) No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

20.80 28.3

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
106WR	1310	11/12/19	1354	11/12/19		44.42.518	069.50.950

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
19.20	29.50	29.20	95	400	40	16000	2"	0.025

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1313	6.15	11.29	334	16.6	8.67	186.6	L/CO	19.35
5	1318	6.01	11.67	278	42.7	6.85	175.0		
10	1323	6.12	11.75	299	16.2	6.84	171.1		
15	1328	6.13	11.76	300	13.8	6.83	171.5		
20	1333	6.15	11.76	300	7.56	6.83	171.8		
25	1338	6.15	11.77	300	8.11	6.82	171.5		
30	1343	6.16	11.77	300	8.44	6.80	171.2		
35	1348	6.16	11.76	300	8.60	6.81	171.3		
40	1353	6.17	11.74	300	8.71	6.82	171.2		
45									
50									
55									
60									

DUP-01 HERE

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed: 10-15

Wind Direction: NW

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys: 0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/12/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: DUP-01 THIS SITE

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

24.90

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107BR	1125	11/13/19	1202	11/13/19		44.42.672	069.51.689

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.85	34.10	30.25	89	450	30	13500	2"	0.0235

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1120	6.33	8.45	682	19.7	2.91	-20.3	450	21.67
5	1125	6.67	8.94	642	9.58	0.96	-94.6	↓	↓
10	1140	6.77	9.04	648	3.07	0.66	-116.5		
15	1145	6.70	9.03	654	2.47	0.54	-126.3		
20	1150	6.71	9.05	664	1.01	0.40	-141.2		
25	1155	6.72	9.05	669	0.60	0.33	-156.2		
30	1200	6.72	9.10	670	0.86	0.30	-158.3		
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed: 5-10

Wind Direction: NW

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
107CR	1100	11/13/19	1115	11/13/19		44.42.572	069.51.090

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.55	52.30	47.60	254	50	6	300	2"	0.067625

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1106								
Purge Stop	1112								
Pre Sample	1113	5.20	2.47	361	0.10	7.47	65.0	50	2220
Post Sample	1310	7.79	10.47	346	-0.02	4.74	-63.7	50	26.39

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	(No)

Comments:

Sampled by (print/sign): Katrina Aiman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310AW	1036	11/11/19	1041	11/11/19		44.43.079	069.51.089

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.55	17.45	10.20	54	50	2	100	2"	0.0141

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1037								
Purge Stop	1039								
Pre Sample	1040	7.09	5.78	182	2.30	10.20	204.7	50	4.96
Post Sample	1206	7.53	3.04	164	1.39	12.94	223.7	50	5.69

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed 8

Wind Direction N

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 9/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	(No)
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	(No)
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments: Dup-01 Here

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

4.75

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310C	1505	11/13/19	1532	11/13/19		44.43.080	069.51.097

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.68	63.85	55.50	500	400	55	6000	2"	0.132.05

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1511	6.30	6.03	153	3.99	15.01	224.8	400	2.68
5	1516	8.72	7.44	158	3.58	9.17	214.8	↓	↓
10	1521	8.73	7.43	156	2.83	9.15	213.7		
15	1526	8.75	7.42	157	2.33	9.18	214.5		
20	1531	8.72	7.45	158	2.36	9.19	212.7		
25									
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction NW

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 ~~650~~ (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments:

Sampled by (print/sign): NICK ADAMS

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
310D	1430	11/13/19	1509	11/13/19		44.43.077	069.51.091

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
1.63 1430	185.00	184.50	1731	50	35	1750	2"	0.45 7175

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1431								
Purge Stop	1506								
Pre Sample	1507	7.65	2.38	143	0.41	5.35	-64.9	50	4.75
Post Sample	1623	7.33	4.55	139	0.88	4.87	-15.6	50	90.20

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: (Sunny) Cloudy

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

			Comments:
Damaged:	Yes	(No)	
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617A	12:11	11/18/19	12:16	11/18/19		44.42.962	069.50.885

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
3.72	17.86	12.70	85	50	2	100	2"	0.02245

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	12:12								
Purge Stop	12:14								
Pre Sample	12:15	6.01	3.53	337	19.1	9.36	-37.9	50	3.94
Post Sample	13:31	6.37	4.00	332	11.2	7.92	-55.0	50	6.28

Sample Odor: Slight Moderate Strong (None)

Wind Speed Calm

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

			Comments:
Damaged:	Yes	(No)	
Locked:	Yes	(No)	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Lourerio

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
617C	1232	11/18/19	1259	11/18/19		44.42.962	069.50.890

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
12.22	203.74	190.10	1683	130	25	3250	2"	0.4447

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1233	6.72	6.37	235	12.4	4.07	-74.6	130	12.73
5	1238	7.39	6.57	237	6.55	1.26	-111.3		13.04
10	1243	7.49	6.77	239	4.83	1.21	-134.4		13.39
15	1248	7.47	6.87	243	4.13	0.91	-137.1		13.55
20	1253	7.52	6.91	240	4.34	0.90	-137.0		13.68
25	1258	7.54	7.00	240	4.51	0.87	-141.7	↓	13.79
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020) (circle one)

Calibration: See calibration sheet dated: 11/12/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	Yes	(No)
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: DUP-03

Sampled by (print/sign): Agustin Lucero

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618AR	10.50	12/10/19	1058	12/10/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.07	18.18	12.80	26	50	2	100	2"	0.006825

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1053								
Purge Stop	1055								
Pre Sample	1057	6.43	9.44	793	10.00	8.31	130.8	50	10.28
Post Sample	1403	7.18	8.06	637	0.00	10.02	71.8	50	11.83

Sample Odor: Slight Moderate Strong (None)

Wind Speed 10

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SW

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Kat

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
618CR	1105	12/10/19	1147	12/10/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
14.34	80.53	66.50	6/94	~~250~~ 400	35	14000	2"	0.1304

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1110	7.41	9.36	178	2.97	9.74	122.7	400	14.37
5	1115	7.27	9.34	169	0.00	6.02	118.4		
10	1120	7.80	9.29	170	0.00	5.63	96.2		
15	1125	8.21	9.29	180	0.00	1.31	47.9		
20	1130	8.35	9.34	174	0.00	0.96	22.1		
25	1135	8.43	9.25	163	0.00	1.10	-62.8		
30	1140	8.44	9.26	162	0.00	1.13	-63.0		
35	1145	8.45	9.27	162	0.00	1.19	-63.8		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620A	1324	11/7/19	1329	11/7/19		44.42.750	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.45	14.50	14.00	53	50	2	100	2"	0.013875

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1325								
Purge Stop	1327								
Pre Sample	1328	6.52	7.88	158	33.1	5.11	-63.2	50	9.18
Post Sample	1448	8.23	7.26	93	19.8	5.86	-84.5	50	12.88

Sample Odor: Slight Moderate Strong (None)

Wind Speed 7

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1	**Turb:** + \ - 10% NTU *
Temp: + \ - 0.1 °C	**DO:** + \ - 10% mg/L
Spec Cond: + \ - 10% umho	**Drawdown:** + \ - 0.5 ft per 15 min
ORP: + \ - 10% (10 millivolts Katahdin)	

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
620C	1338	11/7/19	1420	11/7/19		44.42.749	069.51.262

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.91	46.15	40.30	238	100	40	4000	2"	0.07597

	Time	pH	°C	Spec Cond	Turbidity	D.O.	EH	FLOW	P.Static
0	1339	7.29	7.97	163	4.12	10.90	-67.8	100	10.50
5	1344	7.64	8.01	174	2.28	3.38	-77.1	↓	10.71
10	1349	8.06	8.06	186	1.17	2.92	-86.8	↓	10.82
15	1354	8.14	8.10	186	0.86	2.42	-88.6	↓	10.90
20	1359	8.20	8.17	187	0.66	2.39	-91.5	↓	10.95
25	1404	8.33	8.20	188	0.81	2.17	-98.6	↓	↓
30	1409	8.42	8.19	189	0.83	2.04	-105.1	↓	↓
35	1414	8.49	8.18	186	0.80	1.94	-104.2	↓	↓
40	1419	8.51	8.17	185	0.78	1.85	-103.9	↓	↓
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Wind Speed 7

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction SW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust	(Yes)	No

Comments:

See Well Information Form for more comments

Sampled by (print/sign): Agustin Cuevas

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH:	+ \ - 0.1	**Turb:**	+ \ - 10% NTU *
Temp:	+ \ - 0.1 °C	**DO:**	+ \ - 10% mg/L
Spec Cond:	+ \ - 10% umho	**Drawdown:**	+ \ - 0.5 ft per 15 min
ORP:	+ \ - 10% (10 millivolts Katahdin)		

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
624B	1263	12/10/19	1320	12/10/19		44.42.507	069.51.074

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.22	28.65	24.05	159	450	25	11250	2"	0.0407

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1254	5.93	9.40	652	45.0	5.37	-45.0	450	7.87
5	1259	6.08	9.59	663	35.8	0.90	-96.8	↓	7.98
10	1304	6.17	9.60	678	11.8	0.64	-109.4	↓	↓
15	1309	6.29	9.61	691	4.19	0.46	-161.9	↓	↓
20	1314	6.33	9.60	690	3.87	0.44	-163.7	↓	↓
25	1319	6.37	9.57	687	3.63	0.41	-167.4	↓	↓
30									
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear

Wind Speed 10
Wind Direction SW

Outlook: Sunny (Cloudy)
Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)
Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	(No)
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Lorenzo

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
626B	1325	11/19/19	1409	11/19/19		44.42.471	069.50.984

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
12.53	21.00	18.00	52	200	30	6000	2"	0.013675

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1338	6.32	10.11	55	0.00	4.72	-95.4	200	12.85
5	1343	6.18	9.91	52	0.00	3.54	-102.5		
10	1348	6.12	9.84	50	0.00	3.95	-104.6		
15	1353	6.06	9.93	60	0.00	3.33	-100.0		
20	1358	5.99	9.97	59	0.00	3.48	-105.1		
25	1403	5.97	9.94	58	0.00	3.51	-106.0		
30	1408	5.98	9.95	60	0.00	3.46	-106.5		
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction _____

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
627A	1238	11/1/19	1251	11/1/19		44.42.338	069.51.022

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.31	59.35	53.90	487	50	10	500	2"	0.1289

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1239								
Purge Stop	1249								
Pre Sample	1250	7.52	3.84	157	2.06	11.80	213.5	50	3.57
Post Sample	1507	7.97	4.14	161	1.99	7.73	184.2	50	5.88

Sample Odor: Slight Moderate Strong (None)

Wind Speed 8

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction N

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/1/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	Yes	(No)
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
628A	1130	11/19/19	1144	11/19/19		44.42.310	069.51.032

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.47	54.00	49.30	443	50	9	450	2"	0.917075

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1132								
Purge Stop	1141								
Pre Sample	1142	7.31	7.75	1260	12.2	3.91	71.1	50	8.72
Post Sample	1421	7.46	14.01	536	10.6	5.39	-122.2	50	6.53

Sample Odor: Slight Moderate Strong (None) **Wind Speed** Calm **Outlook:** Sunny (Cloudy)

Sample Color: Clear **Wind Direction** _____ **Precipitation:** (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: master flex tubing is frozen in well. Was able to use a different piece. but will need TC to retrieve it

Sampled by (print/sign): Katrina Aman /Katrina

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1 **Turb:** + \ - 10% NTU *
Temp: + \ - 0.1 °C **DO:** + \ - 10% mg/L
Spec Cond: + \ - 10% umho **Drawdown:** + \ - 0.5 ft per 15 min
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629B	1028	11/7/19	1105	11/7/19		44.42.634	069.51.122

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
17.11	40.28	38.80	205	300	35	10500	2"	0.05427

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1029	7.20	10.52	164	1.73	2.42	-27.3	300	17.21
5	1034	7.90	10.62	161	0.31	0.99	-97.3		
10	1039	8.21	10.50	160	0.14	0.81	-121.6		
15	1044	8.40	10.41	160	0.03	0.68	-145.1		
20	1049	8.52	10.38	162	0.00	0.65	-152.6		
25	1054	8.62	10.36	163	0.00	0.63	-164.5		
30	1059	8.65	10.30	160	0.00	0.68	-168.1		
35	1104	8.63	10.20	159	0.00	0.70	-170.5		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 7

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
629E	1016	11/7/19	1020	11/7/19		44.42.634	069.51.121

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
15.19	25.10	22.50	94	50	2	100	2"	0.02483

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1016								
Purge Stop	1018								
Pre Sample	1019	6.86	10.40	274	13.4	4.65	6.8	50	15.79
Post Sample	1240	7.83	7.31	233	0.67	8.20	-77.2	50	18.71

Sample Odor: Slight Moderate Strong (None)

Wind Speed 7

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction SW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 f per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630B	1158	11/7/19	1235	11/7/19		44.42.708	069.51.200

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
18.26	57.10	54.60	344	225	35	7875	2"	0.0908

	Time	pH	°C	Spec Cond	Turbidity	D.O.	EH	FLOW	P.Static
0	1159	7.47	9.92	163	1.23	3.40	-87.4	225	18.96
5	1204	8.40	10.07	164	0.44	2.48	-111.0		19.37
10	1209	8.52	9.91	162	0.38	1.81	-124.0		19.42
15	1214	8.68	9.85	162	0.45	1.25	-134.2		
20	1219	8.74	9.80	160	0.52	0.89	-144.0		
25	1224	8.79	9.79	159	0.67	0.70	-153.8		
30	1229	8.81	9.74	160	0.56	0.61	-159.0		
35	1234	8.85	9.73	160	0.58	0.53	-163.7		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed 7

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020*) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

See Well Information Form for more comments

Sampled by (print/sign): Austin Lowell

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 0.1
Temp: +\- 0.1 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
630E	1137	11/7/19	1141	11/7/19		44.42.705	069.51.195

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.87	15.00	12.50	44	50	1	50	2"	0.0115575

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1138								
Purge Stop	1139								
Pre Sample	1140	6.58	10.36	179	1.47	3.56	-82.3	50	8.01
Post Sample	1306	6.44	7.96	183	2.77	6.68	-65.1	50	8.93

Sample Odor: Slight Moderate Strong (None)

Wind Speed 7

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction SW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/7/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

			Comments:
Damaged:	Yes	(No)	
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	Yes	(No)	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1008BR2	~~1115~~ 1118	11/11/19	1206	11/11/19		44.42.930	069.51.129

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
~~12.25~~ 12.45	63.05	60.00	~~44~~ 450	100	35	3500	2"	0.118875

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1130	7.48	7.11	160	0.00	6.32	124.5	100	12.96
5	1135	7.64	7.09	164	0.00	6.12	102.3		
10	1140	7.72	7.35	162	0.00	6.05	60.1		
15	1145	7.90	6.78	156	0.00	5.94	2.5		
20	1150	7.93	6.77	158	0.00	5.90	-1.5		
25	1155	7.89	6.86	153	0.00	5.79	-22.0		
30	1200	7.90	6.90	151	0.00	5.80	-60.3		
35	1205	7.92	6.95	152	0.00	5.82	-49.0		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed Calm

Wind Direction N

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	Comments:
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1008ER2	1107	11/11/19	1116	11/11/19		44.42.931	069.51.130

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
9.25	18.95	16.50	69	50	2	100	2"	0015125

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1111								
Purge Stop	1113								
Pre Sample	1114	6.62	8.10	328	0.00	1.89	228.4	50	9.59
Post Sample	1210	6.34	6.44	556	0.00	1.94	64.0	50	10.66

Sample Odor: Slight Moderate Strong (None)

Wind Speed ~~Calm~~ 8

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction N

Precipitation: ~~Yes~~ (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: ~~11/6~~ 11/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1040B	1352	12/10/19	1429	12/10/19		44.42.533	069.51.113

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.70	24.00	15.20	43	180	35	6300	2"	0.01125

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1353	6.18	8.50	182	2.13	11.49	-80.1	180	11.17
5	1358	6.63	8.84	131	1.34	11.41	-97.9	|	11.26
10	1403	6.50	8.90	137	1.45	11.29	-101.4	|	|
15	1407	6.42	8.96	142	1.67	11.08	-107.6	|	|
20	1413	6.34	8.99	146	1.80	10.90	-109.9	|	|
25	1418	6.26	9.11	148	1.74	10.84	-112.7	|	|
30	1423	6.23	9.20	150	1.85	10.81	-114.2	|	|
35	1428	6.20	9.28	150	1.99	10.80	-114.9	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)
Sample Color: Clear
Wind Speed 10
Wind Direction SW
Outlook: Sunny (Cloudy)
Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte 2020 (2020*) (circle one)
Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): AUSTIN LOVEJOY

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1041B	1158	12/10/19	1240	12/10/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
	18.30	14.98		100	40	4000	2"	

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1159	6.77	8.80	403	0.41	12.29	-74.3	100	
5	1204	6.54	9.06	404	1.38	10.03	-73.5		
10	1209	6.23	9.25	407	0.86	9.26	-72.3		
15	1214	6.04	9.32	420	0.70	8.35	-76.0		
20	1219	5.88	9.37	441	0.63	7.26	-82.6		
25	1224	5.85	9.37	446	0.77	6.39	-85.0		
30	1229	5.84	9.32	450	0.80	4.94	-86.9		
35	1234	5.83	9.35	454	0.84	4.62	-88.0		
40	1239	5.83	9.29	456	0.86	4.45	-89.3		
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: Unable to measure "DTW" because casing is on 45 degree angle.
Flow rate is based on historical info, 100mL/min (5/17)

Sampled by (print/sign): Agustin Lourido

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 0.1
Temp: +\- 0.1 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
1134B	1220	11/14/19	1313	11/14/19		44.42.259	069.49.839

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
22.80	278.83	277.50	2411	170	35	5950	2"	0.63625

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1237	8.89	8.53	234	0.00	7.44	84.2	170	23.03
5	1242	8.97	8.42	230	0.00	4.39	80.5		23.05
10	1247	9.04	8.33	231	0.00	3.60	75.8		23.07
15	1252	9.10	8.25	232	0.00	3.77	69.6		23.08
20	1257	9.11	8.16	235	0.00	2.20	64.1		23.10
25	1302	9.12	8.07	238	0.00	1.82	59.4		23.12
30	1307	9.14	8.12	238	0.00	1.80	53.4		23.14
35	1312	9.16	8.16	238	0.00	1.74	50.3	↓	23.16
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 0-5

Wind Direction S

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS/ [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W9-1E	1342	11/18/19	1351	11/18/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
2.70	18.00	15.50	122	50	3	150	2"	0.032

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1345								
Purge Stop	1348								
Pre Sample	1349	7.84	4.86	259	0.00	11.17	-71.4	50	3.02
Post Sample	1520	7.13	5.76	223	1.42	8.63	-78.1	50	10.59

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction N

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Nick Adams / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W9-2E	1325	11/18/19	1332	11/18/19		44.42.830	069.51.340

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.05	20.10	17.60	129	50	3	150	2"	0.033875

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1326								
Purge Stop	1329								
Pre Sample	1330	7.83	4.97	267	0.00	10.25	-66.1	50	4.66
Post Sample	1533	7.26	6.38	250	0.62	6.54	-93.3	50	5.26

Sample Odor: Slight Moderate Strong (None)

Wind Speed 5-10

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction N

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS / [signature]

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1B	1028	12/10/19	1105	12/10/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
20.49	39.84	34.00	128	360	35	1260	2"	0.033775

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1029	5.93	9.48	168	1.90	9.07	-92.0	360	20.59
5	1034	5.35	9.49	166	0.77	3.31	-83.0		
10	1039	6.04	9.21	164	0.18	2.40	-122.6		
15	1044	6.40	9.07	162	0.09	1.87	-148.9		
20	1049	6.81	9.05	160	0.18	1.62	-164.1		
25	1054	7.13	9.04	158	0.22	1.40	-182.6		
30	1059	7.19	9.01	155	0.17	1.37	-190.1		
35	1104	7.21	8.99	153	0.10	1.32	-195.0		
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: 10

Wind Direction: SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	Yes	(No)
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: Dup-04 Here

Sampled by (print/sign): Agustin Lavoid

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: +\- 0.1
Temp: +\- 0.1 °C
Spec Cond: +\- 10% umho
ORP: +\- 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: +\- 10% NTU *
DO: +\- 10% mg/L
Drawdown: +\- 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-1E R	1318	11/11/19	1325	11/11/19		44.42.742	069.50.578

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
8.47	19.56	17.06	81	25	~~35~~ 4	100	2"	0.02475

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1320								
Purge Stop	1324								
Pre Sample	1325	6.93	4.70	259	0.00	4.61	-74.1	~~35~~ 25	8.53
Post Sample	1510	7.15	10.83	254	0.00	7.93	-86.9	25	12.42

Sample Odor: Slight Moderate Strong (None)

Wind Speed 8

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction N

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	Yes	(No)

Comments: Well is pushing up from ground. Stands over 6'.

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-2E	1356	11/4/19	1400	11/4/19		44.42.676	069.50.479

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
5.17	14.93	11.75	63	50	2	100	2"	0.01645

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1356								
Purge Stop	1358								
Pre Sample	1359	7.58	4.20	243	6.36	10.96	195.7	50	
Post Sample	1539	7.73	2.76	242	5.24	6.41	186.7	50	9.4

Sample Odor: Slight Moderate Strong (None)

Wind Speed 8

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction N

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Lourido

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-3E	1355	11/14/19	1405	11/14/19		44.42.675	069.50.780

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
4.62	18.09	15.10	100	50	2	100	2"	0.0262

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1400								
Purge Stop	1402								
Pre Sample	1403	8.28	4.40	303	0.32	12.94	99.3	50	5.03
Post Sample	1510	8.09	5.45	300	0.00	14.61	155.5	50	10.48

Sample Odor: Slight Moderate Strong (None)

Wind Speed 0-5

Outlook: Sunny (Cloudy)

Sample Color: CLEAR

Wind Direction S

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/14/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): NICK ADAMS / NAdams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-4E	1025	11/8/19	1031	11/8/19		44.42.594	069.50.713

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
21.73	37.37	35.45	120	50	3	150	2"	0.0318

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1026								
Purge Stop	1029								
Pre Sample	1030	5.96	8.82	568	6.86	5.07	80.7	50	21.93
Post Sample	1246	6.60	5.31	550	5.24	5.09	-106.7	50	23.61

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm 14

Outlook: Sunny Cloudy

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	Yes	(No)	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Lourenco

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5B	1126	11/8/19	1203	11/8/19		44.42.527	069.50.560

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
25.68	62.79	60.04	325	200	35	7000	2"	0.0859

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1127	6.62	8.68	159	1.36	3.74	-31.8	200	25.70
5	1132	7.01	8.57	160	0.90	1.72	-71.3	↓	↓
10	1137	7.13	8.24	158	0.78	1.36	-91.4		
15	1142	7.23	8.07	156	0.68	1.15	-119.3		
20	1147	7.41	8.08	155	0.56	1.06	-131.2		
25	1152	7.58	8.10	154	0.50	0.99	-149.2		
30	1157	7.60	7.89	156	0.52	0.94	-154.2		
35	1202	7.58	7.77	157	0.42	0.90	-159.7	↓	↓
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 14

Wind Direction NW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020*) (circle one)

Calibration: See calibration sheet dated: 11/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	Yes	(No)
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	Yes	(No)
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Loureiro

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-5E	1111	11/8/19	1116	11/8/19		44.42.527	069.50.563

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
14.82	25.98	23.90	86	50	2	100	2"	0.0227

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1112								
Purge Stop	1114								
Pre Sample	1115	7.23	9.04	176	1.36	2.43	-17.7	50	15.85
Post Sample	1240	6.92	5.18	192	2.01	2.72	-122.3	50	16.92

Sample Odor: Slight Moderate Strong (None)

Wind Speed Calm 14

Outlook: Sunny (Cloudy)

Sample Color: Clear

Wind Direction NW

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/8/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	Yes	(No)	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	Yes	(No)	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Lavelo

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W11-6E	1205	11/19/19	1212	11/19/19		44.42.559	069.30.474

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.02	23.49	21.25	50	50	1	50	2"	0.013675

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1207								
Purge Stop	1208								
Pre Sample	1210	5.93	6.72	2.53	000	3.91	-115.2	50	16.12
Post Sample	1458	6.60	13.31	134	0.00	3.30	-150.1	50	20.10

Sample Odor: Slight Moderate Strong (None) **Wind Speed** Calm **Outlook:** Sunny (Cloudy)

Sample Color: Clear **Wind Direction** _____ **Precipitation:** (Yes) No

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)
Lamotte (2020) 2020+ (circle one)
Calibration: See calibration sheet dated: 11/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): KATRINA AMAN

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-1B	1305	11/13/19	1332	11/13/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.15	22.50	20.00	122	400	25	10000	2"	0.032125

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1306	7.42	7.30	292	0.00	6.48	255.4	400	7.25
5	1311	7.75	7.86	224	0.00	0.71	244.5		
10	1316	7.97	7.93	228	0.00	0.34	234.5		
15	1321	8.06	7.92	223	0.00	0.31	229.8		
20	1326	8.10	7.94	224	0.00	~~0.90~~ 0.31	224.3		
25	1331	8.16	7.94	224	0.00	0.28	222.6		
30									
35									
40									
45									
50									
55									
60									

DUP-02

Sample Odor: Slight Moderate Strong (None)

Sample Color: CLEAR

Wind Speed 5-10

Wind Direction NW

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/13/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: GW-DUP-02 there

Sampled by (print/sign): NICK ADAMS/ DA

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
MW-16	1215	11/25/19	1223	11/25/19			

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.46	13.55	11.05	34	50	1	50	2"	0.005875

	Time	PH	Temp	Spec. Cond	Turbidity	DO	EH	Flow	P. Static
Purge Start	1218								
Purge Stop	1219								
Pre Sample	1220	6.10	5.29	114	13.5	12.15	101.5	50	8.31
Post Sample	1540	6.86	10.40	335	61.1	12.55	-69.6	50	11.30

Sample Odor: Slight Moderate Strong (None)

Sample Color: ~~CLEAR~~ CLOUDY

Wind Speed 5-10

Wind Direction W

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/25/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments: A LITTLE SOGGY AT WELL BASE.

Sampled by (print/sign): NICK ADAMS/

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-2E	1104	12/19/19	1108	12/19/19		44.42.498	069.50.180

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.23	13.41	10.91	35	50	1	50	2"	0.009

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1105								
Purge Stop	1106								
Pre Sample	1107	3.60	2.73	20	1.12	9.67	169.0	50	7.81
Post Sample	1209	5.26	3.70	22	0.28	10.87	-56.0	50	8.06

Sample Odor: Slight Moderate Strong (None)

Sample Color: clear

Wind Speed calm

Wind Direction _____

Outlook: (Sunny) Cloudy

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI (556) 650 (circle one)

Lamotte 2020 (2020*) (circle one)

Calibration: See calibration sheet dated: 12/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Agustin Lourenco

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-3E	1249	11/20/19	1255	11/20/19		44.42.486	069.50.435

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
5.28	13.70	11.20	56	50	2	100	2"	0.0148

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1250								
Purge Stop	1252								
Pre Sample	1253	6.83	5.64	359	1.25	7.93	-49.1	50	5.41
Post Sample	1545	EA 7.12	6.39	358	0.17	9.70	51.1	50	6.01

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction _____

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-4B	~~1317~~ 1317	11/20/19	1412	11/20/19		44.42.422	069.50.303

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
17.33	42.70	40.20	216	200	35	7000	2"	0.057175

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1336	9.97 ↔	7.42	161	144	3.84	-70.8	200	17.41
5	1341	7.79	11.00	158	1.19	1.52	-110.8		
10	1346	8.04	10.97	159	1.79	0.77	-118.8		
15	1351	8.07	10.88	158	1.19	0.59	-121.0		
20	1356	8.11	11.44	158	1.23	0.44	-124.3		
25	~~1401~~ 1401	8.13	11.32	158	0.01	0.40	-124.8		
30	1406	8.15	11.26	158	0.08	0.38	-124.6		
35	1411	8.15	11.40	158	0.05	0.31	-125.2	↓	↓
40	1416								
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed: Calm

Wind Direction: _____

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 11/20/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	Comments:
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	(Yes)	No	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Katrina Aman / KA

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:
pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST.
W12-4E	1122	10/11/19	1126	10/11/19		44.42.422	069.50.302

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
7.05	13.45	10.95	37	50	1	50	2"	0.00975

	Time	PH	Temp	Spec. Cond	Turbidity	DO	ORP	Flow	P. Static
Purge Start	1123								
Purge Stop	1124								
Pre Sample	1125	6.88	4.46	190	1.95	11.85	226.3	50	7.26
Post Sample	1250	6.93	4.46	184	1.72	11.94	218.6	50	8.04

Sample Odor: Slight Moderate Strong (None)

Wind Speed 8

Outlook: Sunny (Cloudy)

Sample Color: Red

Wind Direction W

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 (2020+) (circle one)

Calibration: See calibration sheet dated: 10/11/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)	**Comments:**
Locked:	(Yes)	No	
Flagged:	(Yes)	No	
Well Clearly Labeled:			
Outside:	(Yes)	No	
Inside:	Yes	(No)	
Cap free of rust:	(Yes)	No	

Sampled by (print/sign): Agustin Lovelo

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min

Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
W12-5E	1302	12/10/19	1337	12/10/19		44.42.442	069.50.371

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
10.37	20.70	14.50	39	400	30	12000	2"	0.010325

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
0	1305	7.33	9.41	361	0.00	3.48	55.6	400	10.60
5	1310	7.21	9.37	350	0.00	3.09	60.3		
10	1315	7.19	9.46	350	0.00	2.74	58.7		
15	1320	7.16	9.60	352	0.00	2.33	58.6		
20	1325	7.15	9.61	352	0.00	2.25	58.7		
25	1330	7.14	9.60	352	0.00	2.23	57.7		
30	1335	7.13	9.61	353	0.00	2.18	55.4		
35									
40									
45									
50									
55									
60									

Sample Odor: Slight Moderate Strong (None)

Sample Color: Clear

Wind Speed 10

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: Yes (No)

Purge comments:

Equipment Needed:
Solinst
Meters YSI (w/flow cell) & Lamotte
Peristaltic Pump
tubing
battery

Keys:
0702

Meter used: YSI 556 (650) (circle one)
Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Well Condition:

Damaged:	Yes	(No)
Locked:	(Yes)	No
Flagged:	(Yes)	No
Well Clearly Labeled:		
Outside:	(Yes)	No
Inside:	(Yes)	No
Cap free of rust:	(Yes)	No

Comments:

Sampled by (print/sign): Katrina Aman / Katrina Aman

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Calibration: Intake - Static X .0025 = Gallons
Gallons X 3785 = mLs (Tubing Vol. mLs)

Well Stabilization Criteria:

pH: + \ - 0.1
Temp: + \ - 0.1 °C
Spec Cond: + \ - 10% umho
ORP: + \ - 10% (10 millivolts Katahdin)
Turb: + \ - 10% NTU *
DO: + \ - 10% mg/L
Drawdown: + \ - 0.5 ft per 15 min
Comments: * under 10 NTU's 3 readings within 1.0 NTU

Katahdin Analytical Services

GROUNDWATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Measure Time	Measure Date	Sample Time	Sample Date	GPS	NORTH:	WEST:
TRANS	NA	NA	1235	11/19/19		44.43.165	069.51.078

Static (ft)	Total Depth (ft)	Intake Depth (ft)	Tubing vol. mls.	Flow mls/min	Purge Minutes	Actual mL	Well Diameter	Gallons
NA	NA	NA	NA	NA	NA	NA	2"	NA

	Time	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW	P.Static
5	1234	7.52	9.46	146	0.00	3.73	-142.3		

Sample Odor: Slight Moderate Strong (None)

Wind Speed calm

Outlook: Sunny (Cloudy)

Sample Color: clear

Wind Direction _____

Precipitation: (Yes) No

Purge comments:

Equipment Needed:
Meters YSI (w/flow cell) & Lamotte

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/19/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Katrina Amao / Katrina Amao

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

SURFACE WATER SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	FLOW Ft. / Sec	Top of Stake	Comments Odor	Comments Color	GPS	NORTH:	WEST:
SW-A	1550	11/18/19	7.01	2.12	185	18.0	13.96	26.8	Slow	1.15	None	Lt Brown		44.42.566	069.50.749
SW-B	1535	11/18/19	20.90	2.75	108	8.94	13.27	29.8	Fast	1.10	None	LT Yellow		44.42.440	069.50.449
SW-C	1520	11/18/19	6.37	1.68	49	11.3	~~13.39~~ 11.3	-9.3	still	0.50	None	LT Yellow		44.42.597	069.50.368
SW-101	1505	11/18/19	6.67	1.51	75	34.9	11.13	-44.8	FAST	1.10	None	LT Yellow		44.42.785	069.50.663
SW-102	1135	11/18/19	6.68	3.80	165	0.82	14.82	183.0	Slow	0.83	None	Yellowish			
SW-201	1345	11/18/19	7.07	0.87	116	2.07	13.54	-11.9	FAST	UNDER WATER	NONE	LT YELLOW		44.42.321	069.51.015
SW-~~203~~ 9	1445	11/18/19	6.97	2.45	124	3.05	4.54	-66.7	~~FAST~~	2.16	STRONG	BROWN		44.42.548	069.51.154
SW-204	1400	11/18/19	7.71	1.42	106	0.83	13.47	-57.7	FAST	1.32	NONE	LT YELLOW		44.42.377	069.51.013
SW-801	1220	11/18/19	6.89	4.01	277	1.80	13.93	226.7	SLOW	1.46	None	Clear		44.42.617	069.51.094
~~**SW-9**~~	~~1445~~	~~11/18/19~~	~~7.15~~	~~4.40~~	~~183~~	~~5.76~~	~~12.98~~	~~-69.2~~	~~FAST~~	~~OUT OF WATER~~	~~STRONG~~	~~BROWN~~		44.42.506	069.51.241
DUP-SW-01	1155	11/18/19	6.68	3.30	165	0.82	14.82	183.0	Slow	0.83	None	Yellowish			
SW-203	1435	11/18/19	7.15	4.40	183	5.76	12.98	-69.2	FAST	2.16	NONE	LT YELLOW			

Sample Odor: slight Moderat Strong None **Wind Speed** 5-10 **Outlook:** Sunny (Cloudy)

Sample Color: _____ **Wind Direction** N **Precipitation:** Yes (No)

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI 556 (650) (circle one)

Lamotte 2020 2020+ (circle one)

Calibration: See calibration sheet dated: 11/18/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Katrina Hman / Katrina

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

LEACHATE COLLECTION SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	ORP	Comments Odor	Comments Color	GPS	NORTH:	WEST:
8ALC	1300	11/25/19	7.38	17.07	18052	13.4	3.62	-71.2	STRONG	BROWN			
8BLC	1340	↓	7.66	21.41	22327	3.41	1.64	-110.3	STRONG	BROWN			
8CLC	1415	↓	7.54	19.08	17782	12.5	0.82	-127.7	STRONG	BROWN			
11ALC													
11BLC													
11CLC													
TANK													

Sample Odor: Slight Moderate Strong None

Wind Speed W 5-10

Outlook: (Sunny) Cloudy

Sample Color: _____

Wind Direction _____

Precipitation: Yes (No)

Comments: See Comments above for Sample Odor & Color

Equipment Needed:

Solinst

Meters YSI & Lamotte

Dipper Pole

Flow Meter

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 11/25/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): NICK ADAMS/ N Adams

Instructions

See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

WICK DRAIN & TANK SAMPLING LOG: Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	pH	°C	Spec Cond	Turbidity	D.O.	EH	FIELD ALK	Comments Odor	Comments Color	GPS	NORTH:	WEST:
8BCWD	1145	11/20/19	6.21	17.07	998	4.76	3.19	-60.5		None	Clear			
TANK	1500	12/10/19	7.71	13.05	17496	55.4	4.23	-32.2	N/A	Stinky	Brown			

Sample Odor: Slight Moderate (Strong) None

Sample Color: Brown

Wind Speed 10

Wind Direction SW

Outlook: Sunny (Cloudy)

Precipitation: (Yes) No

Comments: See Comments above for Sample Odor & Color

Equipment Needed:
Solinst
Meters YSI & Lamotte
Dipper Pole
Flow Meter

Meter used: YSI (556) 650 (circle one)

Lamotte (2020) 2020+ (circle one)

Calibration: See calibration sheet dated: 12/10/19

Bottles: see Test America's "Bottle Order Information & COC" appropriate for this event

Sampled by (print/sign): Agustin Loureiro

Instructions
See Waste Management's "Groundwater, Surface Water and Leachate Sampling Guide" for more detailed instructions

Katahdin Analytical Services

LEACHATE DETECTION SAMPLING LOG: SPECIFIC CONDUCTANCE ONLY

Waste Management Crossroads Landfill, Norridgewock, Maine

Site ID	Sample Time	Sample Date	Spec Cond
123LD	1351	12/6/19	2905
1LD	1348		4268
2LD	1345		1431
~~3LD~~	DRY		
4ABLD			
4ALD			
4BLD			
45SD	1500		813
5ABLD	DRY		
5ALD			
5BLD			
7LD	1430		2566
9ABCLD	1448		2291
9ALD	1441		1169
9BLD	1446		3161
9CLD	1435		2192
10ABLD	1423		7197
10ALD	1420		2256
10BLD	1415		17825
11ABCLD	1523		1750
11ALD	1518		1534
11BLD	1510		2736
11CLD	1506		1153
12ABLD	1532		1026
12ALD	1327		1178
12BLD	1530		825

*Set up 45SD first thing, drips slowly

Sampled by (print/sign): NICK ADAMS

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 11/7/19

PROJECT NUMBER: SAMPLER: GUS LOCERO

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
736		7.07		7.16
740			4.00	7.59

Buffer Lot Numbers: pH 4: 0735 pH 7: 36018 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
8.48	1413	745

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
9.66	250.5	751

Calibration Solution Lot Number: 9GC666 Calibration Range for Solution 1413

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution 240

MODEL: 2020 i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	9.68 → 10.00	756
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/7/19

QC'd By: Date:

758 DO = 102.3 → 100.0 @ 13.57

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 11/8/19

PROJECT NUMBER: SAMPLER: AL

MODEL: 556 MPS SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
757		7.18		16.68
800			3.84	16.50

Buffer Lot Numbers: pH 4: 0735 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
16.44	1348	803

Calibration Solution Lot Number: 9GC666

Calibration Range for Solution 1413

MODEL: 2020i

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.77	261.5	806

Calibration Solution Lot Number: 9GD336

Calibration Range for Solution 240

SERIAL NO.: C2549165

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	9.92 → 10	810
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/8/19

QC'd By: Date:

DO 815 88.9 → 100.0

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 11/11/19

PROJECT NUMBER: _____ SAMPLER: AL

MODEL: 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
725		7.19		18.84
720			3.95	19.28

Buffer Lot Numbers: pH 4: 0735 pH 7: 3618 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
18.58	1315	735

Calibration Solution Lot Number: 9GC666
Calibration Range for Solution 1413

MODEL: 20201

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
18.24	258.2	740

Calibration Solution Lot Number: 9GD8836
Calibration Range for Solution 240

SERIAL NO.: C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.84 → 10.0	745
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: [signature] Date: 11/11/19

QC'd By: _____ Date: _____

DO 98.3 → 100.0 12.67 150

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 11/11/19

PROJECT NUMBER: SAMPLER: AL, KA

MODEL: YSI 556 SERIAL NO.: SN 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
800		6.83		7.00
803			4.23	7.07

Buffer Lot Numbers: pH 4: 0735 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
806 6.35	1426	806

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
806 6.27	246.9	810

Calibration Solution Lot Number: 9GC666 **Calibration Solution Lot Number:** 9GD336

Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.64 → 10.0	815
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Kathleen Date: 11/11/19

QC'd By: Date:

820 DO 92.3 → 100.0 @ 7.90

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 11/12/19

PROJECT NUMBER: _____ SAMPLER: Nick Adams

MODEL: 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
735		6.93		19.16
740			4.43	15.76

Buffer Lot Numbers: pH 4: 0735 pH 7: 3618 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
24hr 16.82	1375	742

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
19.09	256.8	747

Calibration Solution Lot Number: 9GC666 Calibration Range for Solution 1413

MODEL: 2020i

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution 240

SERIAL NO.: SN1156-2119

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.84 → 10.0	810
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: _____ Date: 11/12/19

QC'd By: _____ Date: _____

800 DO 109.9 → 100.0 @ 19.59

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 11/13/19

PROJECT NUMBER: SAMPLER: NICK ADAMS

MODEL: YSI 650 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1025		7.03		16.16
1030			4.01	26.04

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
26.75	1413	1034

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
23.09	244.0	1038

Calibration Solution Lot Number: 9GC666 **Calibration Solution Lot Number:** 9GD334

Calibration Range for Solution Calibration Range for Solution

MODEL: LAMOTTE 2020i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	9.90 → 10.00	1040
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/13/19

QC'd By: Date:

1045 DO = 96.9 → 98.4 @ 9.23

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Closelands DATE: 11/13/19

PROJECT NUMBER: SAMPLER: Katrina Aman

MODEL: 650 556 SERIAL NO.: 05B1901 AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
720		7.15		14.84
727			4.12	13.49

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
13.22	1591	730

Calibration Solution Lot Number: 9GC666

Calibration Range for Solution 413

MODEL: 2020

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
13.10	212.6	735

Calibration Solution Lot Number: 9GD336

Calibration Range for Solution 240

SERIAL NO.: 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.76 → 10.0	725
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/13/19

QC'd By: Date:

800 DO 112.6 → 100.0 @ 14.64

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 11/14/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 650 SERIAL NO.: 02H002141C

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1153		7.03		18.60
1159			4.00	18.94

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
19.89	1413	1203

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
19.80	244.0	1208

Calibration Solution Lot Number: 9GC666 Calibration Range for Solution

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution

MODEL: LAMOTTE 2020i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	10.01 → 10.03	1210
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/14/19

QC'd By: Date:

1215 DO = 99.9 @ 13.20

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: C20SR0405 DATE: 11/18/19

PROJECT NUMBER: SAMPLER: A. LOUREIRO

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
755		7.03		19.21
802			4.00	19.03

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	Time
18.90	1413	817

Calibration Solution Lot Number: 9GC666

Calibration Range for Solution 1413

MODEL: LaMotte 2020i

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
18.06	251.0	822

Calibration Solution Lot Number: 9GD336

Calibration Range for Solution 240

SERIAL NO.: SN1156-2119

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10.49	830
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/18/19

QC'd By: Date:

DO 87.5 @ 15.74 time 840

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 11/18/19

PROJECT NUMBER: SAMPLER: ADAMS

MODEL: YSI 600 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
758		7.03		17.14
804			4.00	18.56

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	Time
17.22	1413	816

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
17.22	256.8	822

Calibration Solution Lot Number: 9GC666 Calibration Range for Solution 1413

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution 240

MODEL: LaMotte 2020 SERIAL NO.: 5347 - 3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	0.99 0.00	830
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/18/19

QC'd By: Date:

DO 108.6 @ 17.02 time 840

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 11/19/19

PROJECT NUMBER: SAMPLER: KA

MODEL: 556 / YSI SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
855		6.96		12.98
859			4.00	13.17

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
13.08	1420	902

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
13.41	244.0	905

Calibration Solution Lot Number: 96C1666 Calibration Range for Solution 1413

Calibration Solution Lot Number: 96D336 Calibration Range for Solution 240

MODEL: LaMotte 2020 **SERIAL NO.:** 5347-3804

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.88	858
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Katie Lee Date: 11/19/19

QC'd By: Date:

DO time reading temp
912 90.3 16.90

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads

PROJECT NUMBER:

MODEL: YSI 650

DATE: 11/20/19

SAMPLER: KA

SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
851		10.89		9.98
855			4.16	10.80

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
10.63	1413	905

Calibration Solution Lot Number: 9GC1666

Calibration Range for Solution 1413

MODEL: LaMotte 2020i

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
11.15	243.9	910

Calibration Solution Lot Number: 9GD336

Calibration Range for Solution 240

SERIAL NO.: SN1156-2119

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	10.45	900
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Kate [illegible] Date: 11/20/19

QC'd By: Date:

DO time 915 reading 99.6 temp 16.75

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 11/25/19

PROJECT NUMBER: SAMPLER: NICK ADAMS

MODEL: YSI 556 SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
1136		7.03		17.98
1141			4.00	14.56

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
14.70	1413	1146

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
16.07	244.0	1150

Calibration Solution Lot Number: 9GC666 Calibration Range for Solution

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution

MODEL: CAMOTTE 2020i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range 10	9.67 → 10.00	1151
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 11/25/19

QC'd By: Date:

1200 DO = 104.0 → 100.0 @ 23.01

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: CROSSROADS DATE: 12/6/19

PROJECT NUMBER: LD's SAMPLER: NICK ADAMS

MODEL: YSI 556 SERIAL NO.: 05B101AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)

Buffer Lot Numbers: pH 4:_____ pH 7:_____ pH 10:_____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
19.25	1413	1330

REDOX METER

Temp (°C)	E_H Reading (mV)	Time

Calibration Solution Lot Number: 9GC666 **Calibration Solution Lot Number:**_____

Calibration Range for Solution _____ Calibration Range for Solution _____

MODEL:_____ **SERIAL NO.:**_____

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range		
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:_____

Signature: _____ Date: 12/6/19

QC'd By:_____ Date:_____

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 12/10/19

PROJECT NUMBER: SAMPLER: AL, KA

MODEL: 600 SERIAL NO.: 02H0021AC

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
727		7.24		21.49
735			3.85	21.95

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
21.99	1340	739

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
22.18	227.9	744

Calibration Solution Lot Number: 9GC666
Calibration Range for Solution 1413

Calibration Solution Lot Number: 9GD336
Calibration Range for Solution 240

MODEL: 2020i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.91 → 10.0	750
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 12/10/19

QC'd By: Date:

DO 128.6 @ 16.89 @ 815

WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 12/10/19

PROJECT NUMBER: SAMPLER: AL KA

MODEL: 556 MPS SERIAL NO.: 05B1901AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
725		7.26		21.63
733			3.75	21.75

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10:

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
21.82	1403	738

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
22.03	220.1	740

Calibration Solution Lot Number: 9G0C666 Calibration Range for Solution 1413

Calibration Solution Lot Number: 9GD336 Calibration Range for Solution 240

MODEL: 2020i **SERIAL NO.:** ~~2020i~~ KA C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.86 → 10.0	750
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions:

Signature: Date: 12/10/19

QC'd By: Date:

DO 102.1 @ 17.41 @ 755

WM
WASTE MANAGEMENT

METER CALIBRATION LOG

PROJECT NAME: Crossroads DATE: 12/19/19

PROJECT NUMBER: _____ SAMPLER: AL

MODEL: 556 SERIAL NO.: 05B 1901 AF

pH METER

Time	pH 10 Buffer Check	pH 7 Buffer Check	pH 4 Buffer Check	Temp of Calibration Soln (°C)
731		7.07		11.78
735			4.12	11.91

Buffer Lot Numbers: pH 4: 3603 pH 7: 3618 pH 10: _____

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	*Time*
12.04	1381	740

REDOX METER

Temp (°C)	E_H Reading (mV)	Time
11.78	261.2	744

Calibration Solution Lot Number: 9GC666 **Calibration Solution Lot Number:** 9GD336

Calibration Range for Solution 1413 Calibration Range for Solution 240

MODEL: LAMOTTE 2020i **SERIAL NO.:** C254965

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	9.81 → 10.0	746
0 – 100 range		
0 – 1,000 range		
0 – 10 range		
0 – 100 range		
0 – 1,000 range		

Problems/Corrective Actions: _____

Signature: [signature] Date: 12/19/19

QC'd By: _____ Date: _____

DO 134.8 → 100.0 @ 11.39

APPENDIX B

Laboratory Analytical Reports

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-152997-1
Client Project/Site: Crossroads ME-Ann GW
Sampling Event: Annual Groundwater (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
7/31/2019 4:20:12 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-152997-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-152997-1

Comments
No additional comments.

Receipt
The samples were received on 5/4/2019 9:00 AM, 5/14/2019 9:45 AM, 5/15/2019 10:00 AM, 5/16/2019 9:10 AM, 5/17/2019 9:00 AM, 5/21/2019 9:30 AM, 5/22/2019 9:15 AM, 5/23/2019 9:30 AM, 6/5/2019 9:00 AM, 6/6/2019 9:00 AM, 6/8/2019 11:00 AM, 6/11/2019 9:00 AM, 6/14/2019 9:00 AM and 6/15/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 21 coolers at receipt time were 1.8º C, 2.1º C, 2.2º C, 2.4º C, 2.5º C, 2.5º C, 2.6º C, 2.6º C, 2.6º C, 2.6º C, 2.7º C, 2.8º C, 2.8º C, 2.8º C, 2.9º C, 3.0º C, 3.0º C, 3.1º C, 3.2º C, 3.3º C and 3.6º C.

GC/MS VOA
Method(s) 8260C: The Laboratory Control Sample (LCS) was just outside laboratory/project quality control limits for the following analyte: Chloromethane. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Reanalysis was not performed due to holding time limitations. The following samples are impacted: 620A (480-153687-1), DUP-GW-01 (480-153687-2), 620C (480-153687-3) and TB-01 (480-153687-4).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-475323 recovered outside control limits for the following analyte: Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-477169 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: TB-07 (480-154721-2) and W9-2E (480-154721-4).

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-477169 The following samples were affected : TB-07 (480-154721-2) and W9-2E (480-154721-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The method blank for preparation batch 480-473449 and analytical batch 480-474735 contained Total Iron above the client detection limit. This target analyte concentration was less than the laboratory's standard reporting limit (RL); therefore, re-extraction and/or re-analysis of samples 629B (480-153523-1) and 630E (480-153523-2) was not performed.

Method(s) 6010C: The method blank for preparation batch 480-472271 contained Total Iron above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples W11-6E (480-152997-1) were not performed.

Method(s) 6010C: The Total Barium, Iron, Magnesium, and Sodium results reported for the following sample do not concur with results previously reported for this site: 107BR (480-153888-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Manganese results reported for the following sample do not concur with results previously reported for this site: W11-1ER (480-153888-6). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Barium and Iron results reported for the following sample do not concur with results previously reported for this site: DUP-GW-02 (480-153888-4). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Iron and Manganese results reported for the following sample do not concur with results previously reported for this site: 1008ER2 (480-153929-2). Reanalysis was performed, and the results confirmed.

Job ID: 480-152997-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method(s) 6010C: The Total Iron result reported for the following sample did not concur with results previously reported for this site: 1041B (480-153454-2). Reanalysis was performed, and the result confirmed.

Method(s) 6010C: The Total Iron results reported for the following sample do not concur with results previously reported for this site: 104C (480-154721-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Manganese results reported for the following sample do not concur with results previously reported for this site: W12-1B (480-154465-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The method blank for preparation batch 480-478126 and analytical batch 480-478540 contained Total Iron above the client reporting limit. This target analyte concentration was less than the laboratory's standard reporting limit (RL); therefore, re-extraction and/or re-analysis of samples 310AW (480-154949-1) and 624B (480-154949-2) was not performed.

Method(s) 6010C: The Total Iron result reported for the following sample did not concur with results previously reported for this site: 310D (480-154908-2). Reanalysis was performed, and the result confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 2540D: The results reported for the following sample do not concur with results previously reported for this site: 618AR (480-153454-6). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540D: Reanalysis of the following samples were performed outside of the analytical holding time to confirm the original results : 1040B (480-153454-1) and 1134B (480-153454-3). Results do not confirrm, both sets of data have been reported.

Method(s) 353.2: The results reported for the following sample do not concur with results previously reported for this site: 1040B (480-153454-1), 106DR (480-153786-2), 104D (480-154465-3). Reanalysis was performed, and the result(s) confirmed.

Method(s) 353.2: The laboratory control sample (LCS) for analytical batch 480-473078 recovered outside control limits for the following analyte: Nitrite as N. This analyte was biased high in the LCS was not detected above the reporting limit in the associated sample; therefore, the data have been reported. The following samples are impacted: 630E (480-153523-2).

Method(s) 353.2: The laboratory control sample (LCS) for analytical batch 480-474275 recovered outside control limits for the following analytes: <AffectedAnalytes>. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 350.1: The results reported for the following samples do not concur with results previously reported for this site: 1041B (480-153454-2), 617C (480-153454-5), 620A (480-153687-1), 630B (480-153688-1), 106CR (480-153786-1), 106WR (480-153786-3), 1008BR2 (480-153929-1), W12-4E (480-153929-6), TRANS (480-154908-3) and 624B (480-154949-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 5310C, SM 5310D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-478371 recovered outside control limits for the following analytes: total organic carbon. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. 1008BR2 (480-153929-1), DUP-GW-03 (480-153929-3), W12-4B (480-153929-5) and W12-4E (480-153929-6)

Method(s) 9251: The results reported for the following samples do not concur with results previously reported for this site: 106WR (480-153786-3), 107BR (480-153888-2) and 624B (480-154949-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 5310C: The results reported for the following sample do not concur with results previously reported for this site: 107BR (480-153888-2) and W12-3E (480-154654-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) 410.4: The Chemical Oxygen Demand results reported for the following sample do not concur with results previously reported for this site: 1008BR2 (480-153929-1) and 624B (480-154949-2). Reanalysis was performed, and the result(s) confirmed. Higher than

Job ID: 480-152997-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

historical.

Method(s) 9038: The results reported for the following samples do not concur with results previously reported for this site: 107BR (480-153888-2) and 627A (480-154543-2). Reanalysis was performed, and the result confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-6E — Lab Sample ID: 480-152997-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	21		0.15		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Manganese	0.020		0.010		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	7.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Nitrate	0.89		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	2.4	BL	0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.0				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.70				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.62				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	81		5.0		mg/L	1		SM 2540C	Total/NA
Temperature	7.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.24				SU	1		Field Sampling	Total/NA
Specific Conductance	130				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	261.17				ft/msl	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.72				ft	1		Field Sampling	Total/NA

Client Sample ID: 1040B — Lab Sample ID: 480-153454-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085		0.0050		mg/L	1		6010C	Total/NA
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Magnesium	7.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.060		0.010		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	4.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	93		10		mg/L	1		310.2	Total/NA
Nitrate	0.48		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-6.3				%	1		SM 1030E	Total/NA
Calculated TDS	98				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	0.5				NTU	1		Field Sampling	Total/NA
Temperature	7.2				Degrees C	1		Field Sampling	Total/NA
Field pH	5.56				SU	1		Field Sampling	Total/NA
Specific Conductance	224				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.36				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	104.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.75				ft	1		Field Sampling	Total/NA

Client Sample ID: 1041B — Lab Sample ID: 480-153454-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.021		0.0050		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: 1041B (Continued)

Lab Sample ID: 480-153454-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	32		0.15		mg/L	1		6010C	Total/NA
Iron	0.068		0.030		mg/L	1		6010C	Total/NA
Magnesium	9.0		0.24		mg/L	1		6010C	Total/NA
Potassium	14		0.20		mg/L	1		6010C	Total/NA
Sodium	4.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.096		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.48		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	22		5.0		mg/L	1		9038	Total/NA
Chloride	2.1	BL	0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-7.5				%	1		SM 1030E	Total/NA
Calculated TDS	150				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.1				NTU	1		Field Sampling	Total/NA
Temperature	8.5				Degrees C	1		Field Sampling	Total/NA
Field pH	6.35				SU	1		Field Sampling	Total/NA
Specific Conductance	302				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	117.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 1134B

Lab Sample ID: 480-153454-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Calcium	5.0		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.0		0.24		mg/L	1		6010C	Total/NA
Potassium	1.2		0.20		mg/L	1		6010C	Total/NA
Sodium	45		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.1				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	0.7				NTU	1		Field Sampling	Total/NA
Temperature	8.0				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	241				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	223.36				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	67.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.77				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 617A — Lab Sample ID: 480-153454-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.011		0.0050		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Iron	0.56		0.030		mg/L	1		6010C	Total/NA
Magnesium	16		0.24		mg/L	1		6010C	Total/NA
Manganese	0.044		0.010		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	29		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	180		20		mg/L	2		310.2	Total/NA
Sulfate	29		5.0		mg/L	1		9038	Total/NA
Chloride	3.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-8.1				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	48		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	4.2				NTU	1		Field Sampling	Total/NA
Temperature	9.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Specific Conductance	379				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	264.90				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	106.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	3.76				ft	1		Field Sampling	Total/NA

Client Sample ID: 617C — Lab Sample ID: 480-153454-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.22		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	34		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.11		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	12		10		mg/L	1		410.4	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	4.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-9.8				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.4		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	3.0				NTU	1		Field Sampling	Total/NA
Temperature	8.5				Degrees C	1		Field Sampling	Total/NA
Field pH	6.70				SU	1		Field Sampling	Total/NA
Specific Conductance	279				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.81				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	71.1				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 617C (Continued) — Lab Sample ID: 480-153454-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	11.23				ft	1		Field Sampling	Total/NA

Client Sample ID: 618AR — Lab Sample ID: 480-153454-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	43		0.15		mg/L	1		6010C	Total/NA
Magnesium	47		0.24		mg/L	1		6010C	Total/NA
Manganese	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	19		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	320		40		mg/L	4		310.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	5.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.46				%	1		SM 1030E	Total/NA
Calculated TDS	310				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.94				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	290		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	11		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.2				NTU	1		Field Sampling	Total/NA
Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.16				SU	1		Field Sampling	Total/NA
Specific Conductance	599				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.52				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	65.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.69				ft	1		Field Sampling	Total/NA

Client Sample ID: 618CR — Lab Sample ID: 480-153454-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0090		mg/L	1		6010C	Total/NA
Barium	0.028		0.0050		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.7		0.24		mg/L	1		6010C	Total/NA
Manganese	0.020		0.010		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	67		10		mg/L	1		310.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-6.7				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.74				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.33				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	53		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	8.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.07				SU	1		Field Sampling	Total/NA
Specific Conductance	160				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 618CR (Continued) — Lab Sample ID: 480-153454-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ground Water Elevation	253.12				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	112.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	14.00				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153454-8

No Detections.

Client Sample ID: 629B — Lab Sample ID: 480-153523-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0090		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.011		0.010		mg/L	1		6010C	Total/NA
Potassium	2.0		0.20		mg/L	1		6010C	Total/NA
Sodium	5.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	63		10		mg/L	1		310.2	Total/NA
Sulfate	21		5.0		mg/L	1		9038	Total/NA
Chloride	2.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-7.1				%	1		SM 1030E	Total/NA
Calculated TDS	71				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	89		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.6				NTU	1		Field Sampling	Total/NA
Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.76				SU	1		Field Sampling	Total/NA
Specific Conductance	184				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	248.41				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	134.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	16.73				ft	1		Field Sampling	Total/NA

Client Sample ID: 630E — Lab Sample ID: 480-153523-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Manganese	1.0		0.010		mg/L	1		6010C	Total/NA
Potassium	0.32		0.20		mg/L	1		6010C	Total/NA
Sodium	4.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	58		10		mg/L	1		310.2	Total/NA
Nitrate	5.4		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	1.5	BL	0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.4				%	1		SM 1030E	Total/NA
Calculated TDS	73				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.76				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	94		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.9		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 630E (Continued) — Lab Sample ID: 480-153523-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Turbidity	1.9				NTU	1		Field Sampling	Total/NA
Temperature	6.8				Degrees C	1		Field Sampling	Total/NA
Field pH	5.95				SU	1		Field Sampling	Total/NA
Specific Conductance	123				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	261.84				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	173.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.73				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153523-3

No Detections.

Client Sample ID: 620A — Lab Sample ID: 480-153687-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.035		0.0050		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.048		0.030		mg/L	1		6010C	Total/NA
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.090		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.092		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	4.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.60				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.58				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.8				NTU	1		Field Sampling	Total/NA
Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA
Specific Conductance	293				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.95				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	127.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.64				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-01 — Lab Sample ID: 480-153687-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.024		0.0050		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Iron	0.11		0.030		mg/L	1		6010C	Total/NA
Magnesium	19		0.24		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Nitrate	0.12		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-01 (Continued) — Lab Sample ID: 480-153687-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	5.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	3.0				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.60				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.36				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	77		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.9				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.50				SU	1		Field Sampling	Total/NA
Specific Conductance	212				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	102.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 620C — Lab Sample ID: 480-153687-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.026		0.0090		mg/L	1		6010C	Total/NA
Barium	0.14		0.0050		mg/L	1		6010C	Total/NA
Calcium	21		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.013		0.010		mg/L	1		6010C	Total/NA
Potassium	3.0		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	98		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.050		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	8.5		5.0		mg/L	1		9038	Total/NA
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.8				%	1		SM 1030E	Total/NA
Calculated TDS	100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.76				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.32				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	77		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.9				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.50				SU	1		Field Sampling	Total/NA
Specific Conductance	212				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	253.09				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	102.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.65				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153687-4

No Detections.

Client Sample ID: 630B — Lab Sample ID: 480-153688-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Barium	0.011		0.0050		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Iron	0.070		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.5		0.24		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 630B (Continued) — Lab Sample ID: 480-153688-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	8.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	70		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.13		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA
Chloride	2.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.3				%	1		SM 1030E	Total/NA
Calculated TDS	77				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.88				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	68		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.7				NTU	1		Field Sampling	Total/NA
Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.46				SU	1		Field Sampling	Total/NA
Specific Conductance	180				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	251.72				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	146.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	18.13				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-1B — Lab Sample ID: 480-153688-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.031		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	6.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.025		0.010		mg/L	1		6010C	Total/NA
Potassium	1.6		0.20		mg/L	1		6010C	Total/NA
Sodium	7.9		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	78		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.057		0.020		mg/L as N	1		350.1	Total/NA
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.0				%	1		SM 1030E	Total/NA
Calculated TDS	79				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.70				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.32				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	55		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.5				NTU	1		Field Sampling	Total/NA
Temperature	8.7				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	170				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	252.18				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	112.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	20.36				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153688-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 106CR — Lab Sample ID: 480-153786-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.018		0.0050		mg/L	1		6010C	Total/NA
Calcium	79		0.15		mg/L	1		6010C	Total/NA
Iron	0.36		0.030		mg/L	1		6010C	Total/NA
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Manganese	0.20		0.010		mg/L	1		6010C	Total/NA
Potassium	7.7		0.20		mg/L	1		6010C	Total/NA
Sodium	7.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	220		30		mg/L	3		310.2	Total/NA
Ammonia as N	0.076		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	12		10		mg/L	1		410.4	Total/NA
Sulfate	28		5.0		mg/L	1		9038	Total/NA
Chloride	5.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	3.2				%	1		SM 1030E	Total/NA
Calculated TDS	240				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.56				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	270		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.25				SU	1		Field Sampling	Total/NA
Specific Conductance	483				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.82				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-40.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.45				ft	1		Field Sampling	Total/NA

Client Sample ID: 106DR — Lab Sample ID: 480-153786-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.020		0.0050		mg/L	1		6010C	Total/NA
Calcium	95		0.15		mg/L	1		6010C	Total/NA
Magnesium	11		0.24		mg/L	1		6010C	Total/NA
Potassium	5.7		0.20		mg/L	1		6010C	Total/NA
Sodium	3.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	270		40		mg/L	4		310.2	Total/NA
Nitrate	0.12		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	25		5.0		mg/L	1		9038	Total/NA
Chloride	2.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.33				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.58				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	310		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Specific Conductance	531				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.85				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	35.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.30				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 106WR — Lab Sample ID: 480-153786-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	38		0.15		mg/L	1		6010C	Total/NA
Iron	0.29		0.030		mg/L	1		6010C	Total/NA
Magnesium	5.5		0.24		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	2.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		40		mg/L	4		310.2	Total/NA
Ammonia as N	0.079		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.31		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA
Chloride	0.56		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.39				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.52				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	2.4				NTU	1		Field Sampling	Total/NA
Temperature	8.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.34				SU	1		Field Sampling	Total/NA
Specific Conductance	233				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	247.08				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	91.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	18.72				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153786-4

No Detections.

Client Sample ID: W11-2E — Lab Sample ID: 480-153786-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	14		0.24		mg/L	1		6010C	Total/NA
Potassium	1.0		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	97		20		mg/L	2		310.2	Total/NA
Chloride	13		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.2				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.89				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.40				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA
Specific Conductance	252				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	262.07				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	108.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.56				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-4E — Lab Sample ID: 480-153786-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	45		0.15		mg/L	1		6010C	Total/NA
Magnesium	37		0.24		mg/L	1		6010C	Total/NA
Potassium	3.1		0.20		mg/L	1		6010C	Total/NA
Sodium	18		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	280		30		mg/L	3		310.2	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	4.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.89				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	280		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.9				NTU	1		Field Sampling	Total/NA
Temperature	14.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Specific Conductance	557				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.73				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	86.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	20.44				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5B — Lab Sample ID: 480-153786-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.0090		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.024		0.010		mg/L	1		6010C	Total/NA
Potassium	2.8		0.20		mg/L	1		6010C	Total/NA
Sodium	9.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	67		10		mg/L	1		310.2	Total/NA
Sulfate	6.8		5.0		mg/L	1		9038	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.2				%	1		SM 1030E	Total/NA
Calculated TDS	74				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	76		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	3.5				NTU	1		Field Sampling	Total/NA
Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field pH	8.40				SU	1		Field Sampling	Total/NA
Specific Conductance	166				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	248.24				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	44.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	24.95				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5E — Lab Sample ID: 480-153786-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0090		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-5E (Continued) — Lab Sample ID: 480-153786-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	8.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.045		0.010		mg/L	1		6010C	Total/NA
Potassium	0.92		0.20		mg/L	1		6010C	Total/NA
Sodium	6.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	89		10		mg/L	1		310.2	Total/NA
Chloride	1.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.74				%	1		SM 1030E	Total/NA
Calculated TDS	86				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	3.9				NTU	1		Field Sampling	Total/NA
Temperature	13.6				Degrees C	1		Field Sampling	Total/NA
Field pH	8.16				SU	1		Field Sampling	Total/NA
Specific Conductance	181				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.84				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	65.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.44				ft	1		Field Sampling	Total/NA

Client Sample ID: 101C — Lab Sample ID: 480-153888-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0090		mg/L	1		6010C	Total/NA
Calcium	17		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Potassium	3.3		0.20		mg/L	1		6010C	Total/NA
Sodium	8.9		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	63		10		mg/L	1		310.2	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.0				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.53				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	89	BL	5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	1.7				NTU	1		Field Sampling	Total/NA
Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.77				SU	1		Field Sampling	Total/NA
Specific Conductance	169				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	251.46				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	88.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	20.79				ft	1		Field Sampling	Total/NA

Client Sample ID: 107BR — Lab Sample ID: 480-153888-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0050		mg/L	1		6010C	Total/NA
Calcium	130		0.15		mg/L	1		6010C	Total/NA
Iron	3.2		0.030		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 107BR (Continued) — Lab Sample ID: 480-153888-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Manganese	1.8		0.010		mg/L	1		6010C	Total/NA
Potassium	6.4		0.20		mg/L	1		6010C	Total/NA
Sodium	2.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	330		40		mg/L	4		310.2	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	35		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.26				%	1		SM 1030E	Total/NA
Calculated TDS	390				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.51				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	410		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.2				NTU	1		Field Sampling	Total/NA
Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA
Specific Conductance	737				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	245.74				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-34.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	20.39				ft	1		Field Sampling	Total/NA

Client Sample ID: 107CR — Lab Sample ID: 480-153888-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0093		0.0090		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Potassium	4.4		0.20		mg/L	1		6010C	Total/NA
Sodium	54		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	200		30		mg/L	3		310.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	2.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.2				%	1		SM 1030E	Total/NA
Calculated TDS	210				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.86				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.45				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.84				SU	1		Field Sampling	Total/NA
Specific Conductance	400				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	245.65				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	24.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	20.06				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-02 — Lab Sample ID: 480-153888-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.0050		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-02 (Continued) — Lab Sample ID: 480-153888-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.65		0.030		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Manganese	0.44		0.010		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	9.8		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.66		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Chloride	2.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.7				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.9				NTU	1		Field Sampling	Total/NA
Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.61				SU	1		Field Sampling	Total/NA
Specific Conductance	264				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	264.80				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	118.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.27				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-153888-5

No Detections.

Client Sample ID: W11-1ER — Lab Sample ID: 480-153888-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.0050		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.59		0.030		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Manganese	0.46		0.010		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.82		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Chloride	3.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.2				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.9				NTU	1		Field Sampling	Total/NA
Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.61				SU	1		Field Sampling	Total/NA
Specific Conductance	264				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	264.80				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	118.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-1ER (Continued) — Lab Sample ID: 480-153888-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	7.27				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-3E — Lab Sample ID: 480-153888-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0095		0.0050		mg/L	1		6010C	Total/NA
Calcium	21		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Potassium	1.6		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Nitrate	0.29		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	7.4		5.0		mg/L	1		9038	Total/NA
Chloride	2.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.3				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.9				NTU	1		Field Sampling	Total/NA
Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Specific Conductance	286				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	258.30				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	72.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	3.63				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-5E — Lab Sample ID: 480-153888-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0066		0.0050		mg/L	1		6010C	Total/NA
Calcium	42		0.15		mg/L	1		6010C	Total/NA
Magnesium	4.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.013		0.010		mg/L	1		6010C	Total/NA
Potassium	3.5		0.20		mg/L	1		6010C	Total/NA
Sodium	0.93		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Nitrate	0.057		0.050		mg/L as N	1		353.2	Total/NA
Chloride	0.66		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.45				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.51				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	6.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Specific Conductance	256				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	252.14				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	74.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-5E (Continued) — Lab Sample ID: 480-153888-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	8.97				ft	1		Field Sampling	Total/NA

Client Sample ID: 629E — Lab Sample ID: 480-153899-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0059		0.0050		mg/L	1		6010C	Total/NA
Calcium	12		0.15		mg/L	1		6010C	Total/NA
Chromium	0.011		0.010		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Potassium	0.94		0.20		mg/L	1		6010C	Total/NA
Sodium	9.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	100		20		mg/L	2		310.2	Total/NA
Nitrate	0.93		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	7.1				%	1		SM 1030E	Total/NA
Calculated TDS	100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Temperature	8.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.28				SU	1		Field Sampling	Total/NA
Specific Conductance	267				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.79				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	88.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	15.89				ft	1		Field Sampling	Total/NA

Client Sample ID: 1008BR2 — Lab Sample ID: 480-153929-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.1		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	3.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	60		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.071		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.19		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	39		10		mg/L	1		410.4	Total/NA
Sulfate	7.0		5.0		mg/L	1		9038	Total/NA
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.1				%	1		SM 1030E	Total/NA
Calculated TDS	64				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.59				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	38		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.88				SU	1		Field Sampling	Total/NA
Specific Conductance	162				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	259.59				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	43.6				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1008BR2 (Continued) — Lab Sample ID: 480-153929-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	11.93				ft	1		Field Sampling	Total/NA

Client Sample ID: 1008ER2 — Lab Sample ID: 480-153929-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	55		0.15		mg/L	1		6010C	Total/NA
Magnesium	38		0.24		mg/L	1		6010C	Total/NA
Manganese	1.0		0.010		mg/L	1		6010C	Total/NA
Potassium	0.56		0.20		mg/L	1		6010C	Total/NA
Sodium	8.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	290		40		mg/L	4		310.2	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	3.5				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	300		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.8		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Specific Conductance	558				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	260.92				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	40.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.58				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-03 — Lab Sample ID: 480-153929-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.2		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	3.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	60		10		mg/L	1		310.2	Total/NA
Nitrate	0.18		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	7.8		5.0		mg/L	1		9038	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.4				%	1		SM 1030E	Total/NA
Calculated TDS	65				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.20				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	68		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Specific Conductance	558				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	40.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01 — Lab Sample ID: 480-153929-4

No Detections.

Client Sample ID: W12-4B — Lab Sample ID: 480-153929-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0090		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.010		0.010		mg/L	1		6010C	Total/NA
Potassium	3.6		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	73		10		mg/L	1		310.2	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	5.1				%	1		SM 1030E	Total/NA
Calculated TDS	80				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.59				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.5				NTU	1		Field Sampling	Total/NA
Temperature	12.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.30				SU	1		Field Sampling	Total/NA
Specific Conductance	171				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	234.19				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	3.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	17.57				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-4E — Lab Sample ID: 480-153929-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0065		0.0050		mg/L	1		6010C	Total/NA
Calcium	11		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Potassium	0.63		0.20		mg/L	1		6010C	Total/NA
Sodium	9.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	85		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.11		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.36		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	7.2		5.0		mg/L	1		9038	Total/NA
Chloride	1.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.4				%	1		SM 1030E	Total/NA
Calculated TDS	83				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	92		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.5				NTU	1		Field Sampling	Total/NA
Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.36				SU	1		Field Sampling	Total/NA
Specific Conductance	187				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	245.63				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	63.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	6.36				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-1B — Lab Sample ID: 480-154465-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0059		0.0050		mg/L	1		6010C	Total/NA
Calcium	29		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.6		0.24		mg/L	1		6010C	Total/NA
Manganese	0.083		0.010		mg/L	1		6010C	Total/NA
Potassium	4.2		0.20		mg/L	1		6010C	Total/NA
Sodium	3.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	94		20		mg/L	2		310.2	Total/NA
Sulfate	7.1		5.0		mg/L	1		9038	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.3				%	1		SM 1030E	Total/NA
Calculated TDS	100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.40				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.2				NTU	1		Field Sampling	Total/NA
Temperature	7.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.20				SU	1		Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.9				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	98.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.17				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-2E — Lab Sample ID: 480-154465-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085		0.0050		mg/L	1		6010C	Total/NA
Calcium	0.89		0.15		mg/L	1		6010C	Total/NA
Magnesium	0.53		0.24		mg/L	1		6010C	Total/NA
Potassium	0.27		0.20		mg/L	1		6010C	Total/NA
Sodium	1.2		0.40		mg/L	1		6010C	Total/NA
Chloride	1.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	65				%	1		SM 1030E	Total/NA
Calculated TDS	4.0				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.11				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	5.0		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.0				NTU	1		Field Sampling	Total/NA
Temperature	8.5				Degrees C	1		Field Sampling	Total/NA
Field pH	4.41				SU	1		Field Sampling	Total/NA
Specific Conductance	45				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	261.79				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	127.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	12.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.12				ft	1		Field Sampling	Total/NA

Client Sample ID: 104D — Lab Sample ID: 480-154465-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0092		0.0090		mg/L	1		6010C	Total/NA
Calcium	3.5		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: 104D (Continued)

Lab Sample ID: 480-154465-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Iron	0.063		0.030		mg/L	1		6010C	Total/NA
Magnesium	0.47		0.24		mg/L	1		6010C	Total/NA
Manganese	0.022		0.010		mg/L	1		6010C	Total/NA
Potassium	1.0		0.20		mg/L	1		6010C	Total/NA
Sodium	39		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	75		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.10		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.22		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	1.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.1				%	1		SM 1030E	Total/NA
Calculated TDS	90				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.39				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	95		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.0				NTU	1		Field Sampling	Total/NA
Temperature	12.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.35				SU	1		Field Sampling	Total/NA
Specific Conductance	242				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.61				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	46.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	6.86				ft	1		Field Sampling	Total/NA

Client Sample ID: 626B

Lab Sample ID: 480-154543-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	9.9		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.7		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	1.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	34		30		mg/L	3		310.2	Total/NA
Nitrate	0.067		0.050		mg/L as N	1		353.2	Total/NA
Anion/Cation Balance	4.4				%	1		SM 1030E	Total/NA
Calculated TDS	35				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.76				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.30				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	27		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.3				NTU	1		Field Sampling	Total/NA
Temperature	11.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.14				SU	1		Field Sampling	Total/NA
Specific Conductance	90				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.59				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	51.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	12.39				ft	1		Field Sampling	Total/NA

Client Sample ID: 627A

Lab Sample ID: 480-154543-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	11		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 627A (Continued) — Lab Sample ID: 480-154543-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	2.4		0.24		mg/L	1		6010C	Total/NA
Potassium	2.8		0.20		mg/L	1		6010C	Total/NA
Sodium	18		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	42		10		mg/L	1		310.2	Total/NA
Nitrate	0.083		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	33		5.0		mg/L	1		9038	Total/NA
Chloride	6.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.4				%	1		SM 1030E	Total/NA
Calculated TDS	66				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.51				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.2				NTU	1		Field Sampling	Total/NA
Temperature	17.0				Degrees C	1		Field Sampling	Total/NA
Field pH	8.22				SU	1		Field Sampling	Total/NA
Specific Conductance	166				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	234.98				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	57.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.01				ft	1		Field Sampling	Total/NA

Client Sample ID: 628A — Lab Sample ID: 480-154543-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	4.3		0.24		mg/L	1		6010C	Total/NA
Potassium	3.2		0.20		mg/L	1		6010C	Total/NA
Sodium	16		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	63		10		mg/L	1		310.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	7.3				%	1		SM 1030E	Total/NA
Calculated TDS	79				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.78				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110	BL	5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.4				NTU	1		Field Sampling	Total/NA
Temperature	11.2				Degrees C	1		Field Sampling	Total/NA
Field pH	8.14				SU	1		Field Sampling	Total/NA
Specific Conductance	142				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	239.62				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	52.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.57				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-04 — Lab Sample ID: 480-154654-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0054		0.0050		mg/L	1		6010C	Total/NA
Calcium	48		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-04 (Continued)

Lab Sample ID: 480-154654-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	4.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	190		20		mg/L	2		310.2	Total/NA
Nitrate	0.17		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-16				%	1		SM 1030E	Total/NA
Calculated TDS	170				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.58				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.62				SU	1		Field Sampling	Total/NA
Specific Conductance	329				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	93.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W12-3E

Lab Sample ID: 480-154654-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0051		0.0050		mg/L	1		6010C	Total/NA
Calcium	47		0.15		mg/L	1		6010C	Total/NA
Magnesium	14		0.24		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA
Sodium	4.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	190		20		mg/L	2		310.2	Total/NA
Nitrate	0.17		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.3				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.99				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.55				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.62				SU	1		Field Sampling	Total/NA
Specific Conductance	329				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	240.88				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	93.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	5.54				ft	1		Field Sampling	Total/NA

Client Sample ID: 104C

Lab Sample ID: 480-154721-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0071		0.0050		mg/L	1		6010C	Total/NA
Calcium	34		0.15		mg/L	1		6010C	Total/NA
Iron	0.089		0.030		mg/L	1		6010C	Total/NA
Magnesium	6.9		0.24		mg/L	1		6010C	Total/NA
Manganese	0.55		0.010		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 104C (Continued) — Lab Sample ID: 480-154721-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Potassium	3.3		0.20		mg/L	1		6010C	Total/NA
Sodium	8.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	2.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	4.0				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.50				SU	1		Field Sampling	Total/NA
Specific Conductance	280				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	749.56				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	18.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	6.94				ft	1		Field Sampling	Total/NA

Client Sample ID: TB-07 — Lab Sample ID: 480-154721-2

No Detections.

Client Sample ID: W9-1E — Lab Sample ID: 480-154721-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	17		0.15		mg/L	1		6010C	Total/NA
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Potassium	2.3		0.20		mg/L	1		6010C	Total/NA
Sodium	18		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Chloride	2.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	4.2				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.89				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.39				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	20.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.40				SU	1		Field Sampling	Total/NA
Specific Conductance	280				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.39				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	107.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.91				ft	1		Field Sampling	Total/NA

Client Sample ID: W9-2E — Lab Sample ID: 480-154721-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Magnesium	14		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W9-2E (Continued) — Lab Sample ID: 480-154721-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	5.4				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.98				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.42				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA
Temperature	23.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA
Specific Conductance	263				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	55.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.51				ft	1		Field Sampling	Total/NA

Client Sample ID: 310C — Lab Sample ID: 480-154908-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	25		0.15		mg/L	1		6010C	Total/NA
Iron	0.14		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.5		0.24		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	4.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	0.23		0.050		mg/L as N	1		353.2	Total/NA
Chloride	4.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	11				%	1		SM 1030E	Total/NA
Calculated TDS	76				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.80				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Temperature	8.3				Degrees C	1		Field Sampling	Total/NA
Field pH	8.38				SU	1		Field Sampling	Total/NA
Specific Conductance	150				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	199.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.94				ft	1		Field Sampling	Total/NA

Client Sample ID: 310D — Lab Sample ID: 480-154908-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Iron	0.099		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.2		0.24		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	8.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	0.14		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	8.5		5.0		mg/L	1		9038	Total/NA
Chloride	2.7		0.50		mg/L	1		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310D (Continued) — Lab Sample ID: 480-154908-2

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	3.0				%	1		SM 1030E	Total/NA
Calculated TDS	73				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.74				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.87				SU	1		Field Sampling	Total/NA
Specific Conductance	149				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	272.12				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	210.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.58				ft	1		Field Sampling	Total/NA

Client Sample ID: TRANS — Lab Sample ID: 480-154908-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	12		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.0		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	14		0.40		mg/L	1		6010C	Total/NA
Uranium	57.0		1.0		ug/L	5		6020	Total/NA
Alkalinity, Total	57		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.093		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.14		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	14		10		mg/L	1		410.4	Total/NA
Sulfate	8.3		5.0		mg/L	1		9038	Total/NA
pH	8.2		0.05		SU	1		9040C	Total/NA
Temperature	20.9		0.001		Degrees C	1		9040C	Total/NA
Chloride	1.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.1				%	1		SM 1030E	Total/NA
Calculated TDS	65				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.7				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.29				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Coliform, Total	Absent		2		CFU/100mL	1		SM 9222B	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.68				SU	1		Field Sampling	Total/NA
Specific Conductance	133				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	210.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 310AW — Lab Sample ID: 480-154949-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Iron	0.030	BL	0.030		mg/L	1		6010C	Total/NA
Magnesium	2.4		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	4.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	64		10		mg/L	1		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310AW (Continued)

Lab Sample ID: 480-154949-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Nitrate	0.22		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	5.8		5.0		mg/L	1		9038	Total/NA
Chloride	4.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.74				%	1		SM 1030E	Total/NA
Calculated TDS	73				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.60				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	98		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	164				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	271.90				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	98.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	3.48				ft	1		Field Sampling	Total/NA

Client Sample ID: 624B

Lab Sample ID: 480-154949-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.023		0.0050		mg/L	1		6010C	Total/NA
Calcium	110		0.15		mg/L	1		6010C	Total/NA
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Manganese	1.9		0.010		mg/L	1		6010C	Total/NA
Potassium	5.8		0.20		mg/L	1		6010C	Total/NA
Sodium	3.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	340		40		mg/L	4		310.2	Total/NA
Ammonia as N	0.11		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	15		10		mg/L	1		410.4	Total/NA
Sulfate	35		5.0		mg/L	1		9038	Total/NA
Chloride	2.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.7				%	1		SM 1030E	Total/NA
Calculated TDS	350				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.63				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	410		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Specific Conductance	649				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.14				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	152.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.40				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-6E

Date Collected: 05/03/19 14:08
Date Received: 05/04/19 09:00

Lab Sample ID: 480-152997-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/13/19 18:56	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/13/19 18:56	1
2-Butanone	ND	U	10		ug/L			05/13/19 18:56	1
2-Hexanone	ND	U	5.0		ug/L			05/13/19 18:56	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/13/19 18:56	1
Acetone	ND	U	10		ug/L			05/13/19 18:56	1
Benzene	ND	U	1.0		ug/L			05/13/19 18:56	1
Bromodichloromethane	ND	U	1.0		ug/L			05/13/19 18:56	1
Bromoform	ND	U	1.0		ug/L			05/13/19 18:56	1
Bromomethane	ND	U	1.0		ug/L			05/13/19 18:56	1
Carbon disulfide	ND	U	1.0		ug/L			05/13/19 18:56	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/13/19 18:56	1
Chlorobenzene	ND	U	1.0		ug/L			05/13/19 18:56	1
Chloroethane	ND	U	1.0		ug/L			05/13/19 18:56	1
Chloroform	ND	U	1.0		ug/L			05/13/19 18:56	1
Chloromethane	ND	U	1.0		ug/L			05/13/19 18:56	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/13/19 18:56	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/13/19 18:56	1
Dibromochloromethane	ND	U	1.0		ug/L			05/13/19 18:56	1
Ethylbenzene	ND	U	1.0		ug/L			05/13/19 18:56	1
Methylene Chloride	ND	U	1.0		ug/L			05/13/19 18:56	1
Styrene	ND	U	1.0		ug/L			05/13/19 18:56	1
Tetrachloroethene	ND	U	1.0		ug/L			05/13/19 18:56	1
Toluene	ND	U	1.0		ug/L			05/13/19 18:56	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/13/19 18:56	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/13/19 18:56	1
Trichloroethene	ND	U	1.0		ug/L			05/13/19 18:56	1
Vinyl acetate	ND	U	5.0		ug/L			05/13/19 18:56	1
Vinyl chloride	ND	U	1.0		ug/L			05/13/19 18:56	1
Xylenes, Total	ND	U	2.0		ug/L			05/13/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*05/13/19 18:56*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*05/13/19 18:56*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*05/13/19 18:56*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/13/19 18:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/13/19 07:43	05/21/19 12:40	1
Barium	ND	U	0.0050		mg/L		05/13/19 07:43	05/21/19 12:40	1
Calcium	**21**		0.15		mg/L		05/13/19 07:43	05/21/19 12:40	1
Chromium	ND	U	0.010		mg/L		05/13/19 07:43	05/21/19 12:40	1
Copper	ND	U	0.025		mg/L		05/13/19 07:43	05/21/19 12:40	1
Iron	ND	U	0.030		mg/L		05/13/19 07:43	05/21/19 12:40	1

Client Sample ID: W11-6E

Date Collected: 05/03/19 14:08
Date Received: 05/04/19 09:00

Lab Sample ID: 480-152997-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/13/19 07:43	05/21/19 12:40	1
Magnesium	**17**		0.24		mg/L		05/13/19 07:43	05/21/19 12:40	1
Manganese	**0.020**		0.010		mg/L		05/13/19 07:43	05/21/19 12:40	1
Potassium	**1.1**		0.20		mg/L		05/13/19 07:43	05/21/19 12:40	1
Sodium	**7.8**		0.40		mg/L		05/13/19 07:43	05/21/19 12:40	1
Vanadium	ND	U	0.025		mg/L		05/13/19 07:43	05/21/19 12:40	1
Zinc	ND	U	0.020		mg/L		05/13/19 07:43	05/21/19 12:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/29/19 10:34	05/30/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.0**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.70**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.62**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			05/19/19 13:23	2
Ammonia as N	ND	U	0.020		mg/L as N			05/23/19 10:28	1
Nitrate	**0.89**		0.050		mg/L as N			05/04/19 13:15	1
Sulfate	**18**		5.0		mg/L			06/03/19 10:58	1
Chloride	**2.4**	**BL**	0.50		mg/L			05/29/19 16:52	1
Total Dissolved Solids	**81**		5.0		mg/L			05/10/19 12:03	1
Total Organic Carbon	ND	U	1.0		mg/L			05/31/19 05:48	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/09/19 14:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Temperature	**7.2**				Degrees C			05/03/19 14:08	1
Field pH	**6.24**				SU			05/03/19 14:08	1
Specific Conductance	**130**				umhos/cm			05/03/19 14:08	1
Ground Water Elevation	**261.17**				ft/msl			05/03/19 14:08	1
Depth to Water from Top of Casing	**13.72**				ft			05/03/19 14:08	1

Client Sample ID: 1040B

Date Collected: 05/13/19 14:31
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:48	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/19/19 22:48	1
2-Butanone	ND	U	10		ug/L			05/19/19 22:48	1
2-Hexanone	ND	U	5.0		ug/L			05/19/19 22:48	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/19/19 22:48	1
Acetone	ND	U	10		ug/L			05/19/19 22:48	1
Benzene	ND	U	1.0		ug/L			05/19/19 22:48	1
Bromodichloromethane	ND	U	1.0		ug/L			05/19/19 22:48	1
Bromoform	ND	U	1.0		ug/L			05/19/19 22:48	1
Bromomethane	ND	U	1.0		ug/L			05/19/19 22:48	1
Carbon disulfide	ND	U	1.0		ug/L			05/19/19 22:48	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/19/19 22:48	1
Chlorobenzene	ND	U	1.0		ug/L			05/19/19 22:48	1
Chloroethane	ND	U	1.0		ug/L			05/19/19 22:48	1
Chloroform	ND	U	1.0		ug/L			05/19/19 22:48	1
Chloromethane	ND	U	1.0		ug/L			05/19/19 22:48	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:48	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 22:48	1
Dibromochloromethane	ND	U	1.0		ug/L			05/19/19 22:48	1
Ethylbenzene	ND	U	1.0		ug/L			05/19/19 22:48	1
Methylene Chloride	ND	U	1.0		ug/L			05/19/19 22:48	1
Styrene	ND	U	1.0		ug/L			05/19/19 22:48	1
Tetrachloroethene	ND	U	1.0		ug/L			05/19/19 22:48	1
Toluene	ND	U	1.0		ug/L			05/19/19 22:48	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:48	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 22:48	1
Trichloroethene	ND	U	1.0		ug/L			05/19/19 22:48	1
Vinyl acetate	ND	U	5.0		ug/L			05/19/19 22:48	1
Vinyl chloride	ND	U	1.0		ug/L			05/19/19 22:48	1
Xylenes, Total	ND	U	2.0		ug/L			05/19/19 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*05/19/19 22:48*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/19/19 22:48*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*05/19/19 22:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/19/19 22:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:07	05/24/19 22:12	1
Barium	**0.0085**		0.0050		mg/L		05/20/19 07:07	05/24/19 22:12	1
Calcium	**22**		0.15		mg/L		05/20/19 07:07	05/24/19 22:12	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:12	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:12	1
Iron	ND	U	0.030		mg/L		05/20/19 07:07	05/24/19 22:12	1

Client Sample ID: 1040B

Date Collected: 05/13/19 14:31
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:12	1
Magnesium	**7.4**		0.24		mg/L		05/20/19 07:07	05/24/19 22:12	1
Manganese	**0.060**		0.010		mg/L		05/20/19 07:07	05/24/19 22:12	1
Potassium	**2.2**		0.20		mg/L		05/20/19 07:07	05/25/19 15:47	1
Sodium	**4.6**		0.40		mg/L		05/20/19 07:07	05/24/19 22:12	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:12	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:05	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-6.3**				%			07/10/19 11:35	1
Calculated TDS	**98**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.49**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**93**		10		mg/L			05/22/19 16:17	1
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 14:54	1
Nitrate	**0.48**		0.050		mg/L as N			05/15/19 00:33	1
Sulfate	**17**		5.0		mg/L			06/10/19 10:11	1
Chloride	**2.5**		0.50		mg/L			05/22/19 16:36	1
Total Dissolved Solids	**110**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 03:50	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.4**		4.0		mg/L			05/20/19 13:27	1
Total Suspended Solids	ND	U	4.0		mg/L			07/19/19 12:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.5**				NTU			05/13/19 14:31	1
Temperature	**7.2**				Degrees C			05/13/19 14:31	1
Field pH	**5.56**				SU			05/13/19 14:31	1
Specific Conductance	**224**				umhos/cm			05/13/19 14:31	1
Ground Water Elevation	**242.36**				ft/msl			05/13/19 14:31	1
Field EH/ORP	**104.6**				millivolts			05/13/19 14:31	1
Oxygen, Dissolved	**1.5**				mg/L			05/13/19 14:31	1
Depth to Water from Top of Casing	**10.75**				ft			05/13/19 14:31	1

Client Sample ID: 1041B

Date Collected: 05/13/19 14:35
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:13	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/19/19 23:13	1
2-Butanone	ND	U	10		ug/L			05/19/19 23:13	1
2-Hexanone	ND	U	5.0		ug/L			05/19/19 23:13	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/19/19 23:13	1
Acetone	ND	U	10		ug/L			05/19/19 23:13	1
Benzene	ND	U	1.0		ug/L			05/19/19 23:13	1
Bromodichloromethane	ND	U	1.0		ug/L			05/19/19 23:13	1
Bromoform	ND	U	1.0		ug/L			05/19/19 23:13	1
Bromomethane	ND	U	1.0		ug/L			05/19/19 23:13	1
Carbon disulfide	ND	U	1.0		ug/L			05/19/19 23:13	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/19/19 23:13	1
Chlorobenzene	ND	U	1.0		ug/L			05/19/19 23:13	1
Chloroethane	ND	U	1.0		ug/L			05/19/19 23:13	1
Chloroform	ND	U	1.0		ug/L			05/19/19 23:13	1
Chloromethane	ND	U	1.0		ug/L			05/19/19 23:13	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:13	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 23:13	1
Dibromochloromethane	ND	U	1.0		ug/L			05/19/19 23:13	1
Ethylbenzene	ND	U	1.0		ug/L			05/19/19 23:13	1
Methylene Chloride	ND	U	1.0		ug/L			05/19/19 23:13	1
Styrene	ND	U	1.0		ug/L			05/19/19 23:13	1
Tetrachloroethene	ND	U	1.0		ug/L			05/19/19 23:13	1
Toluene	ND	U	1.0		ug/L			05/19/19 23:13	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:13	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 23:13	1
Trichloroethene	ND	U	1.0		ug/L			05/19/19 23:13	1
Vinyl acetate	ND	U	5.0		ug/L			05/19/19 23:13	1
Vinyl chloride	ND	U	1.0		ug/L			05/19/19 23:13	1
Xylenes, Total	ND	U	2.0		ug/L			05/19/19 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/19/19 23:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*05/19/19 23:13*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/19/19 23:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/19/19 23:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:07	05/24/19 22:42	1
Barium	**0.021**		0.0050		mg/L		05/20/19 07:07	05/24/19 22:42	1
Calcium	**32**		0.15		mg/L		05/20/19 07:07	05/24/19 22:42	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:42	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:42	1
Iron	**0.068**		0.030		mg/L		05/20/19 07:07	05/24/19 22:42	1

Client Sample ID: 1041B

Date Collected: 05/13/19 14:35
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:42	1
Magnesium	**9.0**		0.24		mg/L		05/20/19 07:07	05/24/19 22:42	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:42	1
Potassium	**14**		0.20		mg/L		05/20/19 07:07	05/25/19 16:16	1
Sodium	**4.2**		0.40		mg/L		05/20/19 07:07	05/24/19 22:42	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:42	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 16:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-7.5**				%			07/10/19 11:35	1
Calculated TDS	**150**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.50**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			05/22/19 19:41	2
Ammonia as N	**0.096**		0.020		mg/L as N			05/30/19 12:51	1
Nitrate	**0.48**		0.050		mg/L as N			05/15/19 00:37	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1
Sulfate	**22**		5.0		mg/L			06/10/19 10:41	1
Chloride	**2.1**	**BL**	0.50		mg/L			06/06/19 15:35	1
Total Dissolved Solids	**150**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	**1.5**		1.0		mg/L			06/05/19 20:01	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/20/19 13:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.1**				NTU			05/13/19 14:35	1
Temperature	**8.5**				Degrees C			05/13/19 14:35	1
Field pH	**6.35**				SU			05/13/19 14:35	1
Specific Conductance	**302**				umhos/cm			05/13/19 14:35	1
Field EH/ORP	**117.7**				millivolts			05/13/19 14:35	1
Oxygen, Dissolved	**9.5**				mg/L			05/13/19 14:35	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 1134B

Date Collected: 05/13/19 16:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-3

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:37	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/19/19 23:37	1
2-Butanone	ND	U	10		ug/L			05/19/19 23:37	1
2-Hexanone	ND	U	5.0		ug/L			05/19/19 23:37	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/19/19 23:37	1
Acetone	ND	U	10		ug/L			05/19/19 23:37	1
Benzene	ND	U	1.0		ug/L			05/19/19 23:37	1
Bromodichloromethane	ND	U	1.0		ug/L			05/19/19 23:37	1
Bromoform	ND	U	1.0		ug/L			05/19/19 23:37	1
Bromomethane	ND	U	1.0		ug/L			05/19/19 23:37	1
Carbon disulfide	ND	U	1.0		ug/L			05/19/19 23:37	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/19/19 23:37	1
Chlorobenzene	ND	U	1.0		ug/L			05/19/19 23:37	1
Chloroethane	ND	U	1.0		ug/L			05/19/19 23:37	1
Chloroform	ND	U	1.0		ug/L			05/19/19 23:37	1
Chloromethane	ND	U	1.0		ug/L			05/19/19 23:37	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:37	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 23:37	1
Dibromochloromethane	ND	U	1.0		ug/L			05/19/19 23:37	1
Ethylbenzene	ND	U	1.0		ug/L			05/19/19 23:37	1
Methylene Chloride	ND	U	1.0		ug/L			05/19/19 23:37	1
Styrene	ND	U	1.0		ug/L			05/19/19 23:37	1
Tetrachloroethene	ND	U	1.0		ug/L			05/19/19 23:37	1
Toluene	ND	U	1.0		ug/L			05/19/19 23:37	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 23:37	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 23:37	1
Trichloroethene	ND	U	1.0		ug/L			05/19/19 23:37	1
Vinyl acetate	ND	U	5.0		ug/L			05/19/19 23:37	1
Vinyl chloride	ND	U	1.0		ug/L			05/19/19 23:37	1
Xylenes, Total	ND	U	2.0		ug/L			05/19/19 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*05/19/19 23:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/19/19 23:37*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/19/19 23:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/19/19 23:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		05/20/19 07:07	05/24/19 22:45	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:45	1
Calcium	**5.0**		0.15		mg/L		05/20/19 07:07	05/24/19 22:45	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:45	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:45	1
Iron	ND	U	0.030		mg/L		05/20/19 07:07	05/24/19 22:45	1

Client Sample ID: 1134B

Date Collected: 05/13/19 16:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-3

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:45	1
Magnesium	**1.0**		0.24		mg/L		05/20/19 07:07	05/24/19 22:45	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:45	1
Potassium	**1.2**		0.20		mg/L		05/20/19 07:07	05/25/19 16:20	1
Sodium	**45**		0.40		mg/L		05/20/19 07:07	05/24/19 22:45	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:45	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:21	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.1**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.50**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			05/22/19 18:28	2
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 12:52	1
Nitrate	ND	U	0.050		mg/L as N			05/14/19 22:37	1
Sulfate	**13**		5.0		mg/L			06/10/19 10:11	1
Chloride	**1.8**		0.50		mg/L			05/22/19 16:37	1
Total Dissolved Solids	**120**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 04:23	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**19**		4.0		mg/L			05/20/19 13:27	1
Total Suspended Solids	ND	U	4.0		mg/L			07/19/19 12:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.7**				NTU			05/13/19 16:00	1
Temperature	**8.0**				Degrees C			05/13/19 16:00	1
Field pH	**8.44**				SU			05/13/19 16:00	1
Specific Conductance	**241**				umhos/cm			05/13/19 16:00	1
Ground Water Elevation	**223.36**				ft/msl			05/13/19 16:00	1
Field EH/ORP	**67.6**				millivolts			05/13/19 16:00	1
Oxygen, Dissolved	**3.7**				mg/L			05/13/19 16:00	1
Depth to Water from Top of Casing	**21.77**				ft			05/13/19 16:00	1

Client Sample ID: 617A

Date Collected: 05/13/19 13:08
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-4

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 00:01	1
2-Butanone	ND	U	10		ug/L			05/20/19 00:01	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 00:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 00:01	1
Acetone	ND	U	10		ug/L			05/20/19 00:01	1
Benzene	ND	U	1.0		ug/L			05/20/19 00:01	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 00:01	1
Bromoform	ND	U	1.0		ug/L			05/20/19 00:01	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 00:01	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 00:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 00:01	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 00:01	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 00:01	1
Chloroform	ND	U	1.0		ug/L			05/20/19 00:01	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 00:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:01	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 00:01	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 00:01	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 00:01	1
Styrene	ND	U	1.0		ug/L			05/20/19 00:01	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 00:01	1
Toluene	ND	U	1.0		ug/L			05/20/19 00:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:01	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 00:01	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 00:01	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 00:01	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/20/19 00:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/20/19 00:01*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/20/19 00:01*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/20/19 00:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:07	05/24/19 22:49	1
Barium	**0.011**		0.0050		mg/L		05/20/19 07:07	05/24/19 22:49	1
Calcium	**20**		0.15		mg/L		05/20/19 07:07	05/24/19 22:49	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:49	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:49	1
Iron	**0.56**		0.030		mg/L		05/20/19 07:07	05/24/19 22:49	1

Client Sample ID: 617A

Date Collected: 05/13/19 13:08
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-4

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:49	1
Magnesium	**16**		0.24		mg/L		05/20/19 07:07	05/24/19 22:49	1
Manganese	**0.044**		0.010		mg/L		05/20/19 07:07	05/24/19 22:49	1
Potassium	**1.8**		0.20		mg/L		05/20/19 07:07	05/25/19 16:23	1
Sodium	**29**		0.40		mg/L		05/20/19 07:07	05/24/19 22:49	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:49	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:01	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-8.1**				%			07/10/19 11:35	1
Calculated TDS	**180**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.50**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**180**		20		mg/L			05/22/19 18:28	2
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 14:56	1
Nitrate	ND	U	0.050		mg/L as N			05/14/19 22:39	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1
Sulfate	**29**		5.0		mg/L			06/10/19 10:30	1
Chloride	**3.6**		0.50		mg/L			05/22/19 16:37	1
Total Dissolved Solids	**190**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 05:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**48**		4.0		mg/L			05/20/19 13:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.2**				NTU			05/13/19 13:08	1
Temperature	**9.1**				Degrees C			05/13/19 13:08	1
Field pH	**7.01**				SU			05/13/19 13:08	1
Specific Conductance	**379**				umhos/cm			05/13/19 13:08	1
Ground Water Elevation	**264.90**				ft/msl			05/13/19 13:08	1
Field EH/ORP	**106.8**				millivolts			05/13/19 13:08	1
Oxygen, Dissolved	**3.5**				mg/L			05/13/19 13:08	1
Depth to Water from Top of Casing	**3.76**				ft			05/13/19 13:08	1

Client Sample ID: 617C

Date Collected: 05/13/19 13:01
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-5

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:25	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 00:25	1
2-Butanone	ND	U	10		ug/L			05/20/19 00:25	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 00:25	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 00:25	1
Acetone	ND	U	10		ug/L			05/20/19 00:25	1
Benzene	ND	U	1.0		ug/L			05/20/19 00:25	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 00:25	1
Bromoform	ND	U	1.0		ug/L			05/20/19 00:25	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 00:25	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 00:25	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 00:25	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 00:25	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 00:25	1
Chloroform	ND	U	1.0		ug/L			05/20/19 00:25	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 00:25	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:25	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:25	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 00:25	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 00:25	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 00:25	1
Styrene	ND	U	1.0		ug/L			05/20/19 00:25	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 00:25	1
Toluene	ND	U	1.0		ug/L			05/20/19 00:25	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:25	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:25	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 00:25	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 00:25	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 00:25	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*05/20/19 00:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/20/19 00:25*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/20/19 00:25*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/20/19 00:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**		0.0090		mg/L		05/20/19 07:07	05/24/19 22:53	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:53	1
Calcium	**14**		0.15		mg/L		05/20/19 07:07	05/24/19 22:53	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:53	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:53	1
Iron	**0.22**		0.030		mg/L		05/20/19 07:07	05/24/19 22:53	1

Client Sample ID: 617C

Date Collected: 05/13/19 13:01
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-5

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:53	1
Magnesium	**3.2**		0.24		mg/L		05/20/19 07:07	05/24/19 22:53	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:53	1
Potassium	**2.1**		0.20		mg/L		05/20/19 07:07	07/10/19 11:53	1
Sodium	**34**		0.40		mg/L		05/20/19 07:07	05/24/19 22:53	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:53	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:09	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-9.8**				%			07/10/19 11:35	1
Calculated TDS	**140**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.54**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			05/22/19 19:47	2
Ammonia as N	**0.11**		0.020		mg/L as N			05/30/19 12:55	1
Nitrate	ND	U	0.050		mg/L as N			05/14/19 22:40	1
Chemical Oxygen Demand	**12**		10		mg/L			06/05/19 09:55	1
Sulfate	**16**		5.0		mg/L			06/10/19 10:41	1
Chloride	**4.3**		0.50		mg/L			05/22/19 16:37	1
Total Dissolved Solids	**150**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 05:29	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**6.4**		4.0		mg/L			05/20/19 13:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.0**				NTU			05/13/19 13:01	1
Temperature	**8.5**				Degrees C			05/13/19 13:01	1
Field pH	**6.70**				SU			05/13/19 13:01	1
Specific Conductance	**279**				umhos/cm			05/13/19 13:01	1
Ground Water Elevation	**257.81**				ft/msl			05/13/19 13:01	1
Field EH/ORP	**71.1**				millivolts			05/13/19 13:01	1
Oxygen, Dissolved	**0.7**				mg/L			05/13/19 13:01	1
Depth to Water from Top of Casing	**11.23**				ft			05/13/19 13:01	1

Client Sample ID: 618AR

Date Collected: 05/13/19 11:39
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-6

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 00:49	1
2-Butanone	ND	U	10		ug/L			05/20/19 00:49	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 00:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 00:49	1
Acetone	ND	U	10		ug/L			05/20/19 00:49	1
Benzene	ND	U	1.0		ug/L			05/20/19 00:49	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 00:49	1
Bromoform	ND	U	1.0		ug/L			05/20/19 00:49	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 00:49	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 00:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 00:49	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 00:49	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 00:49	1
Chloroform	ND	U	1.0		ug/L			05/20/19 00:49	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 00:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:49	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 00:49	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 00:49	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 00:49	1
Styrene	ND	U	1.0		ug/L			05/20/19 00:49	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 00:49	1
Toluene	ND	U	1.0		ug/L			05/20/19 00:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 00:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 00:49	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 00:49	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 00:49	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 00:49	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*05/20/19 00:49*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/20/19 00:49*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/20/19 00:49*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/20/19 00:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:07	05/24/19 22:57	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:57	1
Calcium	**43**		0.15		mg/L		05/20/19 07:07	05/24/19 22:57	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 22:57	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:57	1
Iron	ND	U	0.030		mg/L		05/20/19 07:07	05/24/19 22:57	1

Client Sample ID: 618AR

Date Collected: 05/13/19 11:39
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-6

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 22:57	1
Magnesium	**47**		0.24		mg/L		05/20/19 07:07	05/24/19 22:57	1
Manganese	**0.017**		0.010		mg/L		05/20/19 07:07	05/24/19 22:57	1
Potassium	**2.1**		0.20		mg/L		05/20/19 07:07	07/10/19 11:56	1
Sodium	**19**		0.40		mg/L		05/20/19 07:07	05/24/19 22:57	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 22:57	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 22:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:17	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.46**				%			07/10/19 11:35	1
Calculated TDS	**310**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.94**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.48**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**320**		40		mg/L			05/22/19 18:35	4
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 12:58	1
Nitrate	ND	U	0.050		mg/L as N			05/14/19 22:41	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1
Sulfate	**13**		5.0		mg/L			06/10/19 10:41	1
Chloride	**5.9**		0.50		mg/L			05/22/19 16:38	1
Total Dissolved Solids	**290**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	**2.5**		1.0		mg/L			06/05/19 20:16	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**11**		4.0		mg/L			05/20/19 13:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.2**				NTU			05/13/19 11:39	1
Temperature	**10.1**				Degrees C			05/13/19 11:39	1
Field pH	**6.16**				SU			05/13/19 11:39	1
Specific Conductance	**599**				umhos/cm			05/13/19 11:39	1
Ground Water Elevation	**257.52**				ft/msl			05/13/19 11:39	1
Field EH/ORP	**65.7**				millivolts			05/13/19 11:39	1
Oxygen, Dissolved	**4.9**				mg/L			05/13/19 11:39	1
Depth to Water from Top of Casing	**9.69**				ft			05/13/19 11:39	1

Client Sample ID: 618CR

Date Collected: 05/13/19 11:40
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-7

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:13	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 01:13	1
2-Butanone	ND	U	10		ug/L			05/20/19 01:13	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 01:13	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 01:13	1
Acetone	ND	U	10		ug/L			05/20/19 01:13	1
Benzene	ND	U	1.0		ug/L			05/20/19 01:13	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 01:13	1
Bromoform	ND	U	1.0		ug/L			05/20/19 01:13	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 01:13	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 01:13	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 01:13	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 01:13	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 01:13	1
Chloroform	ND	U	1.0		ug/L			05/20/19 01:13	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 01:13	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:13	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:13	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 01:13	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 01:13	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 01:13	1
Styrene	ND	U	1.0		ug/L			05/20/19 01:13	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 01:13	1
Toluene	ND	U	1.0		ug/L			05/20/19 01:13	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:13	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:13	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 01:13	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 01:13	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 01:13	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/20/19 01:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/20/19 01:13*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/20/19 01:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/20/19 01:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**		0.0090		mg/L		05/20/19 07:07	05/24/19 23:01	1
Barium	**0.028**		0.0050		mg/L		05/20/19 07:07	05/24/19 23:01	1
Calcium	**14**		0.15		mg/L		05/20/19 07:07	05/24/19 23:01	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:07	05/24/19 23:01	1
Copper	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 23:01	1
Iron	ND	U	0.030		mg/L		05/20/19 07:07	05/24/19 23:01	1

Client Sample ID: 618CR

Date Collected: 05/13/19 11:40
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-7

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:07	05/24/19 23:01	1
Magnesium	**2.7**		0.24		mg/L		05/20/19 07:07	05/24/19 23:01	1
Manganese	**0.020**		0.010		mg/L		05/20/19 07:07	05/24/19 23:01	1
Potassium	**2.1**		0.20		mg/L		05/20/19 07:07	07/10/19 12:00	1
Sodium	**11**		0.40		mg/L		05/20/19 07:07	05/24/19 23:01	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:07	05/24/19 23:01	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:07	05/24/19 23:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/17/19 14:19	05/20/19 17:13	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-6.7**				%			07/10/19 11:35	1
Calculated TDS	**72**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.74**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.33**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**67**		10		mg/L			05/22/19 16:17	1
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 12:59	1
Nitrate	ND	U	0.050		mg/L as N			05/14/19 22:42	1
Sulfate	**13**		5.0		mg/L			06/10/19 10:41	1
Chloride	**1.9**		0.50		mg/L			05/22/19 16:39	1
Total Dissolved Solids	**53**		5.0		mg/L			05/17/19 09:59	1
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 06:02	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/20/19 13:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/13/19 11:40	1
Temperature	**8.4**				Degrees C			05/13/19 11:40	1
Field pH	**8.07**				SU			05/13/19 11:40	1
Specific Conductance	**160**				umhos/cm			05/13/19 11:40	1
Ground Water Elevation	**253.12**				ft/msl			05/13/19 11:40	1
Field EH/ORP	**112.0**				millivolts			05/13/19 11:40	1
Oxygen, Dissolved	**3.8**				mg/L			05/13/19 11:40	1
Depth to Water from Top of Casing	**14.00**				ft			05/13/19 11:40	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/13/19 00:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-8

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 01:37	1
2-Butanone	ND	U	10		ug/L			05/20/19 01:37	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 01:37	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 01:37	1
Acetone	ND	U	10		ug/L			05/20/19 01:37	1
Benzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromoform	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 01:37	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloroform	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:37	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Styrene	ND	U	1.0		ug/L			05/20/19 01:37	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
Toluene	ND	U	1.0		ug/L			05/20/19 01:37	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:37	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 01:37	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/20/19 01:37*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*05/20/19 01:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/20/19 01:37*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/20/19 01:37*	*1*

Client Sample ID: 629B

Date Collected: 05/14/19 11:25
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/22/19 12:37	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/22/19 12:37	1
2-Butanone	ND	U	10		ug/L			05/22/19 12:37	1
2-Hexanone	ND	U	5.0		ug/L			05/22/19 12:37	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/22/19 12:37	1
Acetone	ND	U	10		ug/L			05/22/19 12:37	1
Benzene	ND	U	1.0		ug/L			05/22/19 12:37	1
Bromodichloromethane	ND	U	1.0		ug/L			05/22/19 12:37	1
Bromoform	ND	U	1.0		ug/L			05/22/19 12:37	1
Bromomethane	ND	U	1.0		ug/L			05/22/19 12:37	1
Carbon disulfide	ND	U	1.0		ug/L			05/22/19 12:37	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/22/19 12:37	1
Chlorobenzene	ND	U	1.0		ug/L			05/22/19 12:37	1
Chloroethane	ND	U	1.0		ug/L			05/22/19 12:37	1
Chloroform	ND	U	1.0		ug/L			05/22/19 12:37	1
Chloromethane	ND	U	1.0		ug/L			05/22/19 12:37	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 12:37	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 12:37	1
Dibromochloromethane	ND	U	1.0		ug/L			05/22/19 12:37	1
Ethylbenzene	ND	U	1.0		ug/L			05/22/19 12:37	1
Methylene Chloride	ND	U	1.0		ug/L			05/22/19 12:37	1
Styrene	ND	U	1.0		ug/L			05/22/19 12:37	1
Tetrachloroethene	ND	U	1.0		ug/L			05/22/19 12:37	1
Toluene	ND	U	1.0		ug/L			05/22/19 12:37	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 12:37	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 12:37	1
Trichloroethene	ND	U	1.0		ug/L			05/22/19 12:37	1
Vinyl acetate	ND	U	5.0		ug/L			05/22/19 12:37	1
Vinyl chloride	ND	U	1.0		ug/L			05/22/19 12:37	1
Xylenes, Total	ND	U	2.0		ug/L			05/22/19 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*05/22/19 12:37*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*05/22/19 12:37*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*05/22/19 12:37*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/22/19 12:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**		0.0090		mg/L		05/20/19 07:22	05/24/19 22:09	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 22:09	1
Calcium	**19**		0.15		mg/L		05/20/19 07:22	05/24/19 22:09	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 22:09	1
Copper	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 22:09	1
Iron	ND	U	0.030		mg/L		05/20/19 07:22	05/24/19 22:09	1

Client Sample ID: 629B

Date Collected: 05/14/19 11:25
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 22:09	1
Magnesium	**3.5**		0.24		mg/L		05/20/19 07:22	05/24/19 22:09	1
Manganese	**0.011**		0.010		mg/L		05/20/19 07:22	05/24/19 22:09	1
Potassium	**2.0**		0.20		mg/L		05/20/19 07:22	05/24/19 22:09	1
Sodium	**5.7**		0.40		mg/L		05/20/19 07:22	05/24/19 22:09	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 22:09	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 22:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:08	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-7.1**				%			07/10/19 11:35	1
Calculated TDS	**71**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.3**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.48**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**63**		10		mg/L			05/29/19 12:34	1
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 14:00	1
Nitrate	ND	U	0.050		mg/L as N			05/15/19 22:20	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1
Sulfate	**21**		5.0		mg/L			06/10/19 15:01	1
Chloride	**2.6**		0.50		mg/L			06/06/19 17:56	1
Total Dissolved Solids	**89**		5.0		mg/L			05/21/19 15:30	1
Total Organic Carbon	ND	U	1.0		mg/L			06/06/19 11:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/21/19 13:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.6**				NTU			05/14/19 11:25	1
Temperature	**9.3**				Degrees C			05/14/19 11:25	1
Field pH	**7.76**				SU			05/14/19 11:25	1
Specific Conductance	**184**				umhos/cm			05/14/19 11:25	1
Ground Water Elevation	**248.41**				ft/msl			05/14/19 11:25	1
Field EH/ORP	**134.9**				millivolts			05/14/19 11:25	1
Oxygen, Dissolved	**4.9**				mg/L			05/14/19 11:25	1
Depth to Water from Top of Casing	**16.73**				ft			05/14/19 11:25	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 630E

Date Collected: 05/14/19 14:53
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/22/19 13:02	1
2-Butanone	ND	U	10		ug/L			05/22/19 13:02	1
2-Hexanone	ND	U	5.0		ug/L			05/22/19 13:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/22/19 13:02	1
Acetone	ND	U	10		ug/L			05/22/19 13:02	1
Benzene	ND	U	1.0		ug/L			05/22/19 13:02	1
Bromodichloromethane	ND	U	1.0		ug/L			05/22/19 13:02	1
Bromoform	ND	U	1.0		ug/L			05/22/19 13:02	1
Bromomethane	ND	U	1.0		ug/L			05/22/19 13:02	1
Carbon disulfide	ND	U	1.0		ug/L			05/22/19 13:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/22/19 13:02	1
Chlorobenzene	ND	U	1.0		ug/L			05/22/19 13:02	1
Chloroethane	ND	U	1.0		ug/L			05/22/19 13:02	1
Chloroform	ND	U	1.0		ug/L			05/22/19 13:02	1
Chloromethane	ND	U	1.0		ug/L			05/22/19 13:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:02	1
Dibromochloromethane	ND	U	1.0		ug/L			05/22/19 13:02	1
Ethylbenzene	ND	U	1.0		ug/L			05/22/19 13:02	1
Methylene Chloride	ND	U	1.0		ug/L			05/22/19 13:02	1
Styrene	ND	U	1.0		ug/L			05/22/19 13:02	1
Tetrachloroethene	ND	U	1.0		ug/L			05/22/19 13:02	1
Toluene	ND	U	1.0		ug/L			05/22/19 13:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:02	1
Trichloroethene	ND	U	1.0		ug/L			05/22/19 13:02	1
Vinyl acetate	ND	U	5.0		ug/L			05/22/19 13:02	1
Vinyl chloride	ND	U	1.0		ug/L			05/22/19 13:02	1
Xylenes, Total	ND	U	2.0		ug/L			05/22/19 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*05/22/19 13:02*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/22/19 13:02*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*05/22/19 13:02*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*05/22/19 13:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 22:27	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 22:27	1
Calcium	**15**		0.15		mg/L		05/20/19 07:22	05/24/19 22:27	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 22:27	1
Copper	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 22:27	1
Iron	ND	U	0.030		mg/L		05/20/19 07:22	05/24/19 22:27	1

Client Sample ID: 630E

Date Collected: 05/14/19 14:53
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 22:27	1
Magnesium	**10**		0.24		mg/L		05/20/19 07:22	05/24/19 22:27	1
Manganese	**1.0**		0.010		mg/L		05/20/19 07:22	05/24/19 22:27	1
Potassium	**0.32**		0.20		mg/L		05/20/19 07:22	05/24/19 22:27	1
Sodium	**4.5**		0.40		mg/L		05/20/19 07:22	05/24/19 22:27	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 22:27	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 22:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.4**				%			07/10/19 11:35	1
Calculated TDS	**73**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.3**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.76**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**58**		10		mg/L			05/29/19 12:34	1
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 14:00	1
Nitrate	**5.4**		0.050		mg/L as N			05/15/19 23:40	1
Sulfate	**17**		5.0		mg/L			06/10/19 13:20	1
Chloride	**1.5**	**BL**	0.50		mg/L			06/11/19 13:11	1
Total Dissolved Solids	**94**		5.0		mg/L			05/21/19 15:30	1
Total Organic Carbon	**1.9**		1.0		mg/L			06/06/19 11:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/21/19 13:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.9**				NTU			05/14/19 14:53	1
Temperature	**6.8**				Degrees C			05/14/19 14:53	1
Field pH	**5.95**				SU			05/14/19 14:53	1
Specific Conductance	**123**				umhos/cm			05/14/19 14:53	1
Ground Water Elevation	**261.84**				ft/msl			05/14/19 14:53	1
Field EH/ORP	**173.2**				millivolts			05/14/19 14:53	1
Oxygen, Dissolved	**5.1**				mg/L			05/14/19 14:53	1
Depth to Water from Top of Casing	**7.73**				ft			05/14/19 14:53	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01
Date Collected: 05/14/19 00:00
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-3
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/22/19 13:26	1
2-Butanone	ND	U	10		ug/L			05/22/19 13:26	1
2-Hexanone	ND	U	5.0		ug/L			05/22/19 13:26	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/22/19 13:26	1
Acetone	ND	U	10		ug/L			05/22/19 13:26	1
Benzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromodichloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromoform	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromomethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Carbon disulfide	ND	U	1.0		ug/L			05/22/19 13:26	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Chlorobenzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloroform	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:26	1
Dibromochloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Ethylbenzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Methylene Chloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Styrene	ND	U	1.0		ug/L			05/22/19 13:26	1
Tetrachloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
Toluene	ND	U	1.0		ug/L			05/22/19 13:26	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:26	1
Trichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
Vinyl acetate	ND	U	5.0		ug/L			05/22/19 13:26	1
Vinyl chloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Xylenes, Total	ND	U	2.0		ug/L			05/22/19 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*05/22/19 13:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/22/19 13:26*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*05/22/19 13:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*05/22/19 13:26*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 620A

Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:20	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 06:20	1
2-Butanone	ND	U	10		ug/L			05/24/19 06:20	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 06:20	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 06:20	1
Acetone	ND	U	10		ug/L			05/24/19 06:20	1
Benzene	ND	U	1.0		ug/L			05/24/19 06:20	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 06:20	1
Bromoform	ND	U	1.0		ug/L			05/24/19 06:20	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 06:20	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 06:20	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 06:20	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 06:20	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 06:20	1
Chloroform	ND	U	1.0		ug/L			05/24/19 06:20	1
Chloromethane	ND	U *	1.0		ug/L			05/24/19 06:20	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:20	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 06:20	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 06:20	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 06:20	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 06:20	1
Styrene	ND	U	1.0		ug/L			05/24/19 06:20	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 06:20	1
Toluene	ND	U	1.0		ug/L			05/24/19 06:20	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:20	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 06:20	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 06:20	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 06:20	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 06:20	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/24/19 06:20*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/24/19 06:20*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*05/24/19 06:20*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/24/19 06:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:57	06/04/19 13:14	1
Barium	**0.035**		0.0050		mg/L		05/22/19 07:57	06/04/19 13:14	1
Calcium	**18**		0.15		mg/L		05/22/19 07:57	06/04/19 13:14	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:14	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:14	1
Iron	**0.048**		0.030		mg/L		05/22/19 07:57	06/04/19 13:14	1

Client Sample ID: 620A

Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:14	1
Magnesium	**18**		0.24		mg/L		05/22/19 07:57	06/04/19 13:14	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:14	1
Potassium	**1.4**		0.20		mg/L		05/22/19 07:57	06/04/19 13:14	1
Sodium	**11**		0.40		mg/L		05/22/19 07:57	06/04/19 13:14	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:14	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 13:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.60**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.4**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.58**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			05/30/19 11:37	2
Ammonia as N	**0.090**		0.020		mg/L as N			06/03/19 11:29	1
Nitrate	**0.092**		0.050		mg/L as N			05/18/19 09:08	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/06/19 12:05	1
Sulfate	**16**		5.0		mg/L			06/13/19 15:34	1
Chloride	**4.4**		0.50		mg/L			06/13/19 20:22	1
Total Dissolved Solids	**170**		5.0		mg/L			06/06/19 08:46	1
Total Organic Carbon	ND	U	1.0		mg/L			06/07/19 05:02	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.8**				NTU			05/16/19 12:12	1
Temperature	**10.4**				Degrees C			05/16/19 12:12	1
Field pH	**6.75**				SU			05/16/19 12:12	1
Specific Conductance	**293**				umhos/cm			05/16/19 12:12	1
Ground Water Elevation	**257.95**				ft/msl			05/16/19 12:12	1
Field EH/ORP	**127.3**				millivolts			05/16/19 12:12	1
Oxygen, Dissolved	**3.2**				mg/L			05/16/19 12:12	1
Depth to Water from Top of Casing	**8.64**				ft			05/16/19 12:12	1

Client Sample ID: DUP-GW-01

Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:46	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 06:46	1
2-Butanone	ND	U	10		ug/L			05/24/19 06:46	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 06:46	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 06:46	1
Acetone	ND	U	10		ug/L			05/24/19 06:46	1
Benzene	ND	U	1.0		ug/L			05/24/19 06:46	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 06:46	1
Bromoform	ND	U	1.0		ug/L			05/24/19 06:46	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 06:46	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 06:46	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 06:46	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 06:46	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 06:46	1
Chloroform	ND	U	1.0		ug/L			05/24/19 06:46	1
Chloromethane	ND	U *	1.0		ug/L			05/24/19 06:46	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:46	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 06:46	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 06:46	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 06:46	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 06:46	1
Styrene	ND	U	1.0		ug/L			05/24/19 06:46	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 06:46	1
Toluene	ND	U	1.0		ug/L			05/24/19 06:46	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 06:46	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 06:46	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 06:46	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 06:46	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 06:46	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/24/19 06:46*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/24/19 06:46*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*05/24/19 06:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/24/19 06:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:57	06/04/19 13:18	1
Barium	**0.024**		0.0050		mg/L		05/22/19 07:57	06/04/19 13:18	1
Calcium	**19**		0.15		mg/L		05/22/19 07:57	06/04/19 13:18	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:18	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:18	1
Iron	**0.11**		0.030		mg/L		05/22/19 07:57	06/04/19 13:18	1

Client Sample ID: DUP-GW-01

Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:18	1
Magnesium	**19**		0.24		mg/L		05/22/19 07:57	06/04/19 13:18	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:18	1
Potassium	**1.5**		0.20		mg/L		05/22/19 07:57	06/04/19 13:18	1
Sodium	**12**		0.40		mg/L		05/22/19 07:57	06/04/19 13:18	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:18	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 13:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:40	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.0**				%			07/10/19 11:35	1
Calculated TDS	**130**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.60**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.36**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			05/30/19 11:39	2
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 11:30	1
Nitrate	**0.12**		0.050		mg/L as N			05/18/19 09:09	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/11/19 10:51	1
Sulfate	**16**		5.0		mg/L			06/13/19 15:34	1
Chloride	**5.6**		0.50		mg/L			06/13/19 20:31	1
Total Dissolved Solids	**77**		5.0		mg/L			05/23/19 14:57	1
Total Organic Carbon	ND	U	1.0		mg/L			06/07/19 05:16	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.9**				NTU			05/16/19 12:12	1
Temperature	**9.9**				Degrees C			05/16/19 12:12	1
Field pH	**8.50**				SU			05/16/19 12:12	1
Specific Conductance	**212**				umhos/cm			05/16/19 12:12	1
Field EH/ORP	**102.9**				millivolts			05/16/19 12:12	1
Oxygen, Dissolved	**2.2**				mg/L			05/16/19 12:12	1

Client Sample ID: 620C

Date Collected: 05/16/19 13:11
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-3

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:13	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 07:13	1
2-Butanone	ND	U	10		ug/L			05/24/19 07:13	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 07:13	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 07:13	1
Acetone	ND	U	10		ug/L			05/24/19 07:13	1
Benzene	ND	U	1.0		ug/L			05/24/19 07:13	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 07:13	1
Bromoform	ND	U	1.0		ug/L			05/24/19 07:13	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 07:13	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 07:13	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 07:13	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 07:13	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 07:13	1
Chloroform	ND	U	1.0		ug/L			05/24/19 07:13	1
Chloromethane	ND	U *	1.0		ug/L			05/24/19 07:13	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:13	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:13	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 07:13	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 07:13	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 07:13	1
Styrene	ND	U	1.0		ug/L			05/24/19 07:13	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 07:13	1
Toluene	ND	U	1.0		ug/L			05/24/19 07:13	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:13	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:13	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 07:13	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 07:13	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 07:13	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/24/19 07:13*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/24/19 07:13*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*05/24/19 07:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/24/19 07:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.026**		0.0090		mg/L		05/22/19 07:57	06/04/19 13:22	1
Barium	**0.14**		0.0050		mg/L		05/22/19 07:57	06/04/19 13:22	1
Calcium	**21**		0.15		mg/L		05/22/19 07:57	06/04/19 13:22	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:22	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:22	1
Iron	ND	U	0.030		mg/L		05/22/19 07:57	06/04/19 13:22	1

Client Sample ID: 620C

Date Collected: 05/16/19 13:11
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-3

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:22	1
Magnesium	**5.5**		0.24		mg/L		05/22/19 07:57	06/04/19 13:22	1
Manganese	**0.013**		0.010		mg/L		05/22/19 07:57	06/04/19 13:22	1
Potassium	**3.0**		0.20		mg/L		05/22/19 07:57	06/04/19 13:22	1
Sodium	**11**		0.40		mg/L		05/22/19 07:57	06/04/19 13:22	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:22	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 13:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:32	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.8**				%			07/10/19 11:35	1
Calculated TDS	**100**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.76**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.32**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**98**		10		mg/L			05/30/19 11:34	1
Ammonia as N	**0.050**		0.020		mg/L as N			06/03/19 11:31	1
Nitrate	ND	U	0.050		mg/L as N			05/18/19 06:57	1
Sulfate	**8.5**		5.0		mg/L			06/13/19 15:35	1
Chloride	**1.4**		0.50		mg/L			06/13/19 23:14	1
Total Dissolved Solids	**77**		5.0		mg/L			05/23/19 14:57	1
Total Organic Carbon	ND	U	1.0		mg/L			06/07/19 05:31	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.9**				NTU			05/16/19 13:11	1
Temperature	**9.9**				Degrees C			05/16/19 13:11	1
Field pH	**8.50**				SU			05/16/19 13:11	1
Specific Conductance	**212**				umhos/cm			05/16/19 13:11	1
Ground Water Elevation	**253.09**				ft/msl			05/16/19 13:11	1
Field EH/ORP	**102.9**				millivolts			05/16/19 13:11	1
Oxygen, Dissolved	**2.2**				mg/L			05/16/19 13:11	1
Depth to Water from Top of Casing	**8.65**				ft			05/16/19 13:11	1

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 07:39	1
2-Butanone	ND	U	10		ug/L			05/24/19 07:39	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 07:39	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 07:39	1
Acetone	ND	U	10		ug/L			05/24/19 07:39	1
Benzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromoform	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 07:39	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloroform	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloromethane	ND	U *	1.0		ug/L			05/24/19 07:39	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:39	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Styrene	ND	U	1.0		ug/L			05/24/19 07:39	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
Toluene	ND	U	1.0		ug/L			05/24/19 07:39	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:39	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 07:39	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*05/24/19 07:39*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*			*05/24/19 07:39*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*			*05/24/19 07:39*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*			*05/24/19 07:39*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 630B

Date Collected: 05/16/19 14:45
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:26	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 16:26	1
2-Butanone	ND	U	10		ug/L			05/24/19 16:26	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 16:26	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 16:26	1
Acetone	ND	U	10		ug/L			05/24/19 16:26	1
Benzene	ND	U	1.0		ug/L			05/24/19 16:26	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 16:26	1
Bromoform	ND	U	1.0		ug/L			05/24/19 16:26	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 16:26	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 16:26	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 16:26	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 16:26	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 16:26	1
Chloroform	ND	U	1.0		ug/L			05/24/19 16:26	1
Chloromethane	ND	U	1.0		ug/L			05/24/19 16:26	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:26	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:26	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 16:26	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 16:26	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 16:26	1
Styrene	ND	U	1.0		ug/L			05/24/19 16:26	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 16:26	1
Toluene	ND	U	1.0		ug/L			05/24/19 16:26	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:26	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:26	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 16:26	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 16:26	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 16:26	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*		*05/24/19 16:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*05/24/19 16:26*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*05/24/19 16:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/24/19 16:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		05/22/19 07:57	06/04/19 13:26	1
Barium	**0.011**		0.0050		mg/L		05/22/19 07:57	06/04/19 13:26	1
Calcium	**19**		0.15		mg/L		05/22/19 07:57	06/04/19 13:26	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:26	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:26	1
Iron	**0.070**		0.030		mg/L		05/22/19 07:57	06/04/19 13:26	1

Client Sample ID: 630B

Date Collected: 05/16/19 14:45
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:26	1
Magnesium	**3.5**		0.24		mg/L		05/22/19 07:57	06/04/19 13:26	1
Manganese	**0.017**		0.010		mg/L		05/22/19 07:57	06/04/19 13:26	1
Potassium	**2.2**		0.20		mg/L		05/22/19 07:57	06/04/19 13:26	1
Sodium	**8.0**		0.40		mg/L		05/22/19 07:57	06/04/19 13:26	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:26	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 13:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.3**				%			07/10/19 11:35	1
Calculated TDS	**77**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.88**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.38**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**70**		10		mg/L			05/30/19 11:34	1
Ammonia as N	**0.13**		0.020		mg/L as N			06/04/19 13:34	1
Nitrate	ND	U	0.050		mg/L as N			05/18/19 06:58	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/06/19 12:05	1
Sulfate	**14**		5.0		mg/L			06/13/19 15:49	1
Chloride	**2.4**		0.50		mg/L			06/13/19 23:14	1
Total Dissolved Solids	**68**		5.0		mg/L			05/23/19 14:57	1
Total Organic Carbon	ND	U	1.0		mg/L			06/07/19 05:45	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.7**				NTU			05/16/19 14:45	1
Temperature	**10.4**				Degrees C			05/16/19 14:45	1
Field pH	**8.46**				SU			05/16/19 14:45	1
Specific Conductance	**180**				umhos/cm			05/16/19 14:45	1
Ground Water Elevation	**251.72**				ft/msl			05/16/19 14:45	1
Field EH/ORP	**146.1**				millivolts			05/16/19 14:45	1
Oxygen, Dissolved	**0.6**				mg/L			05/16/19 14:45	1
Depth to Water from Top of Casing	**18.13**				ft			05/16/19 14:45	1

Client Sample ID: W11-1B

Date Collected: 05/16/19 16:03
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.031**		0.0090		mg/L		05/22/19 07:57	06/04/19 13:30	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:30	1
Calcium	**15**		0.15		mg/L		05/22/19 07:57	06/04/19 13:30	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 13:30	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:30	1
Iron	ND	U	0.030		mg/L		05/22/19 07:57	06/04/19 13:30	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 13:30	1
Magnesium	**6.1**		0.24		mg/L		05/22/19 07:57	06/04/19 13:30	1
Manganese	**0.025**		0.010		mg/L		05/22/19 07:57	06/04/19 13:30	1
Potassium	**1.6**		0.20		mg/L		05/22/19 07:57	06/04/19 13:30	1
Sodium	**7.9**		0.40		mg/L		05/22/19 07:57	06/04/19 13:30	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 13:30	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 13:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.0**				%			07/10/19 11:35	1
Calculated TDS	**79**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.70**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.32**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**78**		10		mg/L			05/30/19 11:34	1
Ammonia as N	**0.057**		0.020		mg/L as N			06/04/19 10:52	1
Nitrate	ND	U	0.050		mg/L as N			05/18/19 06:59	1
Sulfate	ND	U	5.0		mg/L			06/13/19 15:50	1
Chloride	**1.4**		0.50		mg/L			06/13/19 23:23	1
Total Dissolved Solids	**55**		5.0		mg/L			05/23/19 15:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/07/19 06:00	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.5**				NTU			05/16/19 16:03	1
Temperature	**8.7**				Degrees C			05/16/19 16:03	1
Field pH	**8.44**				SU			05/16/19 16:03	1
Specific Conductance	**170**				umhos/cm			05/16/19 16:03	1
Ground Water Elevation	**252.18**				ft/msl			05/16/19 16:03	1
Field EH/ORP	**112.8**				millivolts			05/16/19 16:03	1
Oxygen, Dissolved	**0.9**				mg/L			05/16/19 16:03	1
Depth to Water from Top of Casing	**20.36**				ft			05/16/19 16:03	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-3

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 16:53	1
2-Butanone	ND	U	10		ug/L			05/24/19 16:53	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 16:53	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 16:53	1
Acetone	ND	U	10		ug/L			05/24/19 16:53	1
Benzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromoform	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 16:53	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloroform	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:53	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Styrene	ND	U	1.0		ug/L			05/24/19 16:53	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
Toluene	ND	U	1.0		ug/L			05/24/19 16:53	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:53	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 16:53	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*		*05/24/19 16:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/24/19 16:53*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/24/19 16:53*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/24/19 16:53*	*1*

Client Sample ID: 106CR

Date Collected: 05/20/19 12:25
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:53	05/30/19 14:00	1
Barium	**0.018**		0.0050		mg/L		05/22/19 07:53	05/30/19 14:00	1
Calcium	**79**		0.15		mg/L		05/22/19 07:53	05/30/19 14:00	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:00	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:00	1
Iron	**0.36**		0.030		mg/L		05/22/19 07:53	05/30/19 14:00	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:00	1
Magnesium	**12**		0.24		mg/L		05/22/19 07:53	05/30/19 14:00	1
Manganese	**0.20**		0.010		mg/L		05/22/19 07:53	05/30/19 14:00	1
Potassium	**7.7**		0.20		mg/L		05/22/19 07:53	05/30/19 14:00	1
Sodium	**7.6**		0.40		mg/L		05/22/19 07:53	05/30/19 14:00	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:00	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:00	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		07/07/19 11:24	07/09/19 21:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.2**				%			07/10/19 11:35	1
Calculated TDS	**240**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.56**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**220**		30		mg/L			06/02/19 16:30	3
Ammonia as N	**0.076**		0.020		mg/L as N			06/11/19 10:30	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 09:23	1
Chemical Oxygen Demand	**12**		10		mg/L			06/14/19 10:23	1
Sulfate	**28**		5.0		mg/L			06/17/19 15:10	1
Chloride	**5.9**		0.50		mg/L			06/17/19 13:26	1
Total Dissolved Solids	**270**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 05:59	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/20/19 12:25	1
Temperature	**9.4**				Degrees C			05/20/19 12:25	1
Field pH	**7.25**				SU			05/20/19 12:25	1
Specific Conductance	**483**				umhos/cm			05/20/19 12:25	1
Ground Water Elevation	**246.82**				ft/msl			05/20/19 12:25	1
Field EH/ORP	**-40.0**				millivolts			05/20/19 12:25	1
Oxygen, Dissolved	**3.6**				mg/L			05/20/19 12:25	1
Depth to Water from Top of Casing	**19.45**				ft			05/20/19 12:25	1

Client Sample ID: 106DR

Date Collected: 05/20/19 13:20
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:53	05/30/19 14:29	1
Barium	**0.020**		0.0050		mg/L		05/22/19 07:53	05/30/19 14:29	1
Calcium	**95**		0.15		mg/L		05/22/19 07:53	05/30/19 14:29	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:29	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:29	1
Iron	ND	U	0.030		mg/L		05/22/19 07:53	05/30/19 14:29	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:29	1
Magnesium	**11**		0.24		mg/L		05/22/19 07:53	05/30/19 14:29	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:29	1
Potassium	**5.7**		0.20		mg/L		05/22/19 07:53	05/30/19 14:29	1
Sodium	**3.5**		0.40		mg/L		05/22/19 07:53	05/30/19 14:29	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:29	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:29	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:48	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.33**				%			07/10/19 11:35	1
Calculated TDS	**280**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.58**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**270**		40		mg/L			06/02/19 16:37	4
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:45	1
Nitrate	**0.12**		0.050		mg/L as N			05/22/19 10:12	1
Sulfate	**25**		5.0		mg/L			06/17/19 15:10	1
Chloride	**2.1**		0.50		mg/L			06/17/19 13:26	1
Total Dissolved Solids	**310**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 06:45	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/20/19 13:20	1
Temperature	**9.9**				Degrees C			05/20/19 13:20	1
Field pH	**7.06**				SU			05/20/19 13:20	1
Specific Conductance	**531**				umhos/cm			05/20/19 13:20	1
Ground Water Elevation	**246.85**				ft/msl			05/20/19 13:20	1
Field EH/ORP	**35.3**				millivolts			05/20/19 13:20	1
Oxygen, Dissolved	**5.0**				mg/L			05/20/19 13:20	1
Depth to Water from Top of Casing	**19.30**				ft			05/20/19 13:20	1

Client Sample ID: 106WR

Date Collected: 05/20/19 14:55
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:53	05/30/19 14:33	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:33	1
Calcium	**38**		0.15		mg/L		05/22/19 07:53	05/30/19 14:33	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:33	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:33	1
Iron	**0.29**		0.030		mg/L		05/22/19 07:53	05/30/19 14:33	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:33	1
Magnesium	**5.5**		0.24		mg/L		05/22/19 07:53	05/30/19 14:33	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:33	1
Potassium	**2.2**		0.20		mg/L		05/22/19 07:53	05/30/19 14:33	1
Sodium	**2.0**		0.40		mg/L		05/22/19 07:53	05/30/19 14:33	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:33	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/02/19 12:12	06/04/19 10:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.39**				%			07/10/19 11:35	1
Calculated TDS	**110**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.52**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		40		mg/L			06/02/19 16:37	4
Ammonia as N	**0.079**		0.020		mg/L as N			06/10/19 09:46	1
Nitrate	**0.31**		0.050		mg/L as N			05/22/19 10:13	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/14/19 10:23	1
Sulfate	**14**		5.0		mg/L			06/17/19 14:31	1
Chloride	**0.56**		0.50		mg/L			06/18/19 17:23	1
Total Dissolved Solids	**120**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 06:59	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**12**		4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.4**				NTU			05/20/19 14:55	1
Temperature	**8.1**				Degrees C			05/20/19 14:55	1
Field pH	**6.34**				SU			05/20/19 14:55	1
Specific Conductance	**233**				umhos/cm			05/20/19 14:55	1
Ground Water Elevation	**247.08**				ft/msl			05/20/19 14:55	1
Field EH/ORP	**91.4**				millivolts			05/20/19 14:55	1
Oxygen, Dissolved	**9.7**				mg/L			05/20/19 14:55	1
Depth to Water from Top of Casing	**18.72**				ft			05/20/19 14:55	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/20/19 00:00
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/28/19 17:55	1
2-Butanone	ND	U	10		ug/L			05/28/19 17:55	1
2-Hexanone	ND	U	5.0		ug/L			05/28/19 17:55	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/28/19 17:55	1
Acetone	ND	U	10		ug/L			05/28/19 17:55	1
Benzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromodichloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromoform	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromomethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Carbon disulfide	ND	U	1.0		ug/L			05/28/19 17:55	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Chlorobenzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloroform	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 17:55	1
Dibromochloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Ethylbenzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Methylene Chloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Styrene	ND	U	1.0		ug/L			05/28/19 17:55	1
Tetrachloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
Toluene	ND	U	1.0		ug/L			05/28/19 17:55	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 17:55	1
Trichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
Vinyl acetate	ND	U	5.0		ug/L			05/28/19 17:55	1
Vinyl chloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Xylenes, Total	ND	U	2.0		ug/L			05/28/19 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/28/19 17:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/28/19 17:55*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/28/19 17:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/19 17:55*	*1*

Client Sample ID: W11-2E

Date Collected: 05/20/19 12:08
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-5

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/28/19 13:03	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/28/19 13:03	1
2-Butanone	ND	U	10		ug/L			05/28/19 13:03	1
2-Hexanone	ND	U	5.0		ug/L			05/28/19 13:03	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/28/19 13:03	1
Acetone	ND	U	10		ug/L			05/28/19 13:03	1
Benzene	ND	U	1.0		ug/L			05/28/19 13:03	1
Bromodichloromethane	ND	U	1.0		ug/L			05/28/19 13:03	1
Bromoform	ND	U	1.0		ug/L			05/28/19 13:03	1
Bromomethane	ND	U	1.0		ug/L			05/28/19 13:03	1
Carbon disulfide	ND	U	1.0		ug/L			05/28/19 13:03	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/28/19 13:03	1
Chlorobenzene	ND	U	1.0		ug/L			05/28/19 13:03	1
Chloroethane	ND	U	1.0		ug/L			05/28/19 13:03	1
Chloroform	ND	U	1.0		ug/L			05/28/19 13:03	1
Chloromethane	ND	U	1.0		ug/L			05/28/19 13:03	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 13:03	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 13:03	1
Dibromochloromethane	ND	U	1.0		ug/L			05/28/19 13:03	1
Ethylbenzene	ND	U	1.0		ug/L			05/28/19 13:03	1
Methylene Chloride	ND	U	1.0		ug/L			05/28/19 13:03	1
Styrene	ND	U	1.0		ug/L			05/28/19 13:03	1
Tetrachloroethene	ND	U	1.0		ug/L			05/28/19 13:03	1
Toluene	ND	U	1.0		ug/L			05/28/19 13:03	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 13:03	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 13:03	1
Trichloroethene	ND	U	1.0		ug/L			05/28/19 13:03	1
Vinyl acetate	ND	U	5.0		ug/L			05/28/19 13:03	1
Vinyl chloride	ND	U	1.0		ug/L			05/28/19 13:03	1
Xylenes, Total	ND	U	2.0		ug/L			05/28/19 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/28/19 13:03*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/28/19 13:03*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/28/19 13:03*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/28/19 13:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:53	05/30/19 14:37	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:37	1
Calcium	**16**		0.15		mg/L		05/22/19 07:53	05/30/19 14:37	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:37	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:37	1
Iron	ND	U	0.030		mg/L		05/22/19 07:53	05/30/19 14:37	1

Client Sample ID: W11-2E

Date Collected: 05/20/19 12:08
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-5

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:37	1
Magnesium	**14**		0.24		mg/L		05/22/19 07:53	05/30/19 14:37	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:37	1
Potassium	**1.0**		0.20		mg/L		05/22/19 07:53	05/30/19 14:37	1
Sodium	**10**		0.40		mg/L		05/22/19 07:53	05/30/19 14:37	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:37	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/02/19 12:12	06/04/19 10:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.2**				%			07/10/19 11:35	1
Calculated TDS	**110**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.89**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.40**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**97**		20		mg/L			06/02/19 16:50	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:50	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 09:31	1
Sulfate	ND	U	5.0		mg/L			06/17/19 14:31	1
Chloride	**13**		0.50		mg/L			06/17/19 14:14	1
Total Dissolved Solids	**100**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 07:14	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			05/20/19 12:08	1
Temperature	**12.7**				Degrees C			05/20/19 12:08	1
Field pH	**7.19**				SU			05/20/19 12:08	1
Specific Conductance	**252**				umhos/cm			05/20/19 12:08	1
Ground Water Elevation	**262.07**				ft/msl			05/20/19 12:08	1
Field EH/ORP	**108.8**				millivolts			05/20/19 12:08	1
Oxygen, Dissolved	**1.9**				mg/L			05/20/19 12:08	1
Depth to Water from Top of Casing	**4.56**				ft			05/20/19 12:08	1

Client Sample ID: W11-4E

Date Collected: 05/20/19 13:31
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:53	05/30/19 14:41	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:41	1
Calcium	**45**		0.15		mg/L		05/22/19 07:53	05/30/19 14:41	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:41	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:41	1
Iron	ND	U	0.030		mg/L		05/22/19 07:53	05/30/19 14:41	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:41	1
Magnesium	**37**		0.24		mg/L		05/22/19 07:53	05/30/19 14:41	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:41	1
Potassium	**3.1**		0.20		mg/L		05/22/19 07:53	05/30/19 14:41	1
Sodium	**18**		0.40		mg/L		05/22/19 07:53	05/30/19 14:41	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:41	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:41	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.89**				%			07/10/19 11:35	1
Calculated TDS	**280**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.50**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**280**		30		mg/L			06/02/19 16:37	3
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:52	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 09:34	1
Sulfate	**16**		5.0		mg/L			06/17/19 15:18	1
Chloride	**4.1**		0.50		mg/L			06/17/19 14:14	1
Total Dissolved Solids	**280**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 07:28	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.9**				NTU			05/20/19 13:31	1
Temperature	**14.4**				Degrees C			05/20/19 13:31	1
Field pH	**7.21**				SU			05/20/19 13:31	1
Specific Conductance	**557**				umhos/cm			05/20/19 13:31	1
Ground Water Elevation	**256.73**				ft/msl			05/20/19 13:31	1
Field EH/ORP	**86.7**				millivolts			05/20/19 13:31	1
Oxygen, Dissolved	**3.7**				mg/L			05/20/19 13:31	1
Depth to Water from Top of Casing	**20.44**				ft			05/20/19 13:31	1

Client Sample ID: W11-5B

Date Collected: 05/20/19 16:04
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**		0.0090		mg/L		05/22/19 07:53	05/30/19 14:45	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:45	1
Calcium	**16**		0.15		mg/L		05/22/19 07:53	05/30/19 14:45	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:45	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:45	1
Iron	ND	U	0.030		mg/L		05/22/19 07:53	05/30/19 14:45	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:45	1
Magnesium	**3.4**		0.24		mg/L		05/22/19 07:53	05/30/19 14:45	1
Manganese	**0.024**		0.010		mg/L		05/22/19 07:53	05/30/19 14:45	1
Potassium	**2.8**		0.20		mg/L		05/22/19 07:53	05/30/19 14:45	1
Sodium	**9.2**		0.40		mg/L		05/22/19 07:53	05/30/19 14:45	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:45	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/02/19 12:12	06/04/19 10:47	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.2**				%			07/10/19 11:35	1
Calculated TDS	**74**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.46**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**67**		10		mg/L			06/02/19 16:26	1
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:53	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 09:35	1
Sulfate	**6.8**		5.0		mg/L			06/17/19 14:33	1
Chloride	**2.0**		0.50		mg/L			06/17/19 14:14	1
Total Dissolved Solids	**76**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 07:43	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.5**				NTU			05/20/19 16:04	1
Temperature	**14.2**				Degrees C			05/20/19 16:04	1
Field pH	**8.40**				SU			05/20/19 16:04	1
Specific Conductance	**166**				umhos/cm			05/20/19 16:04	1
Ground Water Elevation	**248.24**				ft/msl			05/20/19 16:04	1
Field EH/ORP	**44.6**				millivolts			05/20/19 16:04	1
Oxygen, Dissolved	**0.9**				mg/L			05/20/19 16:04	1
Depth to Water from Top of Casing	**24.95**				ft			05/20/19 16:04	1

Client Sample ID: W11-5E

Date Collected: 05/20/19 14:59
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-8

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0090		mg/L		05/22/19 07:53	05/30/19 14:49	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:49	1
Calcium	**16**		0.15		mg/L		05/22/19 07:53	05/30/19 14:49	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:53	05/30/19 14:49	1
Copper	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:49	1
Iron	ND	U	0.030		mg/L		05/22/19 07:53	05/30/19 14:49	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:53	05/30/19 14:49	1
Magnesium	**8.5**		0.24		mg/L		05/22/19 07:53	05/30/19 14:49	1
Manganese	**0.045**		0.010		mg/L		05/22/19 07:53	05/30/19 14:49	1
Potassium	**0.92**		0.20		mg/L		05/22/19 07:53	05/30/19 14:49	1
Sodium	**6.1**		0.40		mg/L		05/22/19 07:53	05/30/19 14:49	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:53	05/30/19 14:49	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:53	05/30/19 14:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 12:50	06/03/19 14:52	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.74**				%			07/10/19 11:35	1
Calculated TDS	**86**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.97**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.46**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**89**		10		mg/L			06/02/19 16:26	1
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:54	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 09:36	1
Sulfate	ND	U	5.0		mg/L			06/17/19 14:33	1
Chloride	**1.3**		0.50		mg/L			06/17/19 14:20	1
Total Dissolved Solids	**84**		5.0		mg/L			05/25/19 08:24	1
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 07:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 14:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.9**				NTU			05/20/19 14:59	1
Temperature	**13.6**				Degrees C			05/20/19 14:59	1
Field pH	**8.16**				SU			05/20/19 14:59	1
Specific Conductance	**181**				umhos/cm			05/20/19 14:59	1
Ground Water Elevation	**249.84**				ft/msl			05/20/19 14:59	1
Field EH/ORP	**65.6**				millivolts			05/20/19 14:59	1
Oxygen, Dissolved	**2.0**				mg/L			05/20/19 14:59	1
Depth to Water from Top of Casing	**13.44**				ft			05/20/19 14:59	1

Client Sample ID: 101C

Date Collected: 05/21/19 14:52
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/30/19 02:01	1
2-Butanone	ND	U	10		ug/L			05/30/19 02:01	1
2-Hexanone	ND	U	5.0		ug/L			05/30/19 02:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/30/19 02:01	1
Acetone	ND	U	10		ug/L			05/30/19 02:01	1
Benzene	ND	U	1.0		ug/L			05/30/19 02:01	1
Bromodichloromethane	ND	U	1.0		ug/L			05/30/19 02:01	1
Bromoform	ND	U	1.0		ug/L			05/30/19 02:01	1
Bromomethane	ND	U	1.0		ug/L			05/30/19 02:01	1
Carbon disulfide	ND	U	1.0		ug/L			05/30/19 02:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/30/19 02:01	1
Chlorobenzene	ND	U	1.0		ug/L			05/30/19 02:01	1
Chloroethane	ND	U	1.0		ug/L			05/30/19 02:01	1
Chloroform	ND	U	1.0		ug/L			05/30/19 02:01	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 02:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:01	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 02:01	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 02:01	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 02:01	1
Styrene	ND	U	1.0		ug/L			05/30/19 02:01	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 02:01	1
Toluene	ND	U	1.0		ug/L			05/30/19 02:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:01	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 02:01	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 02:01	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 02:01	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*05/30/19 02:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/30/19 02:01*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*05/30/19 02:01*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/30/19 02:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0090		mg/L		05/24/19 07:41	05/29/19 05:26	1
Barium	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:26	1
Calcium	**17**		0.15		mg/L		05/24/19 07:41	05/29/19 05:26	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:24	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:26	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 05:26	1

Client Sample ID: 101C

Date Collected: 05/21/19 14:52
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:26	1
Magnesium	**3.2**		0.24		mg/L		05/24/19 07:41	05/29/19 05:26	1
Manganese	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 05:26	1
Potassium	**3.3**		0.20		mg/L		05/24/19 07:41	05/29/19 05:26	1
Sodium	**8.9**		0.40		mg/L		05/24/19 07:41	05/29/19 05:26	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:26	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 15:39	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.0**				%			07/10/19 11:35	1
Calculated TDS	**72**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.2**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.53**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**63**		10		mg/L			06/09/19 15:40	1
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:16	1
Nitrate	ND	U	0.050		mg/L as N			05/23/19 08:27	1
Sulfate	**18**		5.0		mg/L			06/18/19 12:07	1
Chloride	**1.7**		0.50		mg/L			06/06/19 10:46	1
Total Dissolved Solids	**89**	**BL**	5.0		mg/L			05/28/19 10:58	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 00:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.2**		4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.7**				NTU			05/21/19 14:52	1
Temperature	**10.3**				Degrees C			05/21/19 14:52	1
Field pH	**7.77**				SU			05/21/19 14:52	1
Specific Conductance	**169**				umhos/cm			05/21/19 14:52	1
Ground Water Elevation	**251.46**				ft/msl			05/21/19 14:52	1
Field EH/ORP	**88.3**				millivolts			05/21/19 14:52	1
Oxygen, Dissolved	**1.2**				mg/L			05/21/19 14:52	1
Depth to Water from Top of Casing	**20.79**				ft			05/21/19 14:52	1

Client Sample ID: 107BR

Date Collected: 05/21/19 13:48
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:27	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/30/19 02:27	1
2-Butanone	ND	U	10		ug/L			05/30/19 02:27	1
2-Hexanone	ND	U	5.0		ug/L			05/30/19 02:27	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/30/19 02:27	1
Acetone	ND	U	10		ug/L			05/30/19 02:27	1
Benzene	ND	U	1.0		ug/L			05/30/19 02:27	1
Bromodichloromethane	ND	U	1.0		ug/L			05/30/19 02:27	1
Bromoform	ND	U	1.0		ug/L			05/30/19 02:27	1
Bromomethane	ND	U	1.0		ug/L			05/30/19 02:27	1
Carbon disulfide	ND	U	1.0		ug/L			05/30/19 02:27	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/30/19 02:27	1
Chlorobenzene	ND	U	1.0		ug/L			05/30/19 02:27	1
Chloroethane	ND	U	1.0		ug/L			05/30/19 02:27	1
Chloroform	ND	U	1.0		ug/L			05/30/19 02:27	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 02:27	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:27	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:27	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 02:27	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 02:27	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 02:27	1
Styrene	ND	U	1.0		ug/L			05/30/19 02:27	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 02:27	1
Toluene	ND	U	1.0		ug/L			05/30/19 02:27	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:27	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:27	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 02:27	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 02:27	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 02:27	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/30/19 02:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/30/19 02:27*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/30/19 02:27*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/30/19 02:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 05:29	1
Barium	**0.041**		0.0050		mg/L		05/24/19 07:41	05/29/19 05:29	1
Calcium	**130**		0.15		mg/L		05/24/19 07:41	05/29/19 05:29	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:39	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:29	1
Iron	**3.2**		0.030		mg/L		05/24/19 07:41	05/29/19 05:29	1

Client Sample ID: 107BR

Date Collected: 05/21/19 13:48
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:29	1
Magnesium	**12**		0.24		mg/L		05/24/19 07:41	05/29/19 05:29	1
Manganese	**1.8**		0.010		mg/L		05/24/19 07:41	05/29/19 05:29	1
Potassium	**6.4**		0.20		mg/L		05/24/19 07:41	05/29/19 05:29	1
Sodium	**2.8**		0.40		mg/L		05/24/19 07:41	05/29/19 05:29	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:29	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:29	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/03/19 11:30	06/07/19 00:05	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.26**				%			07/10/19 11:35	1
Calculated TDS	**390**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.51**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**330**		40		mg/L			06/02/19 16:46	4
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:17	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 22:13	1
Sulfate	**18**		5.0		mg/L			06/19/19 20:43	1
Chloride	**35**		0.50		mg/L			06/19/19 12:21	1
Total Dissolved Solids	**410**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	**1.4**		1.0		mg/L			06/21/19 16:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.8**		4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.2**				NTU			05/21/19 13:48	1
Temperature	**10.2**				Degrees C			05/21/19 13:48	1
Field pH	**6.81**				SU			05/21/19 13:48	1
Specific Conductance	**737**				umhos/cm			05/21/19 13:48	1
Ground Water Elevation	**245.74**				ft/msl			05/21/19 13:48	1
Field EH/ORP	**-34.9**				millivolts			05/21/19 13:48	1
Oxygen, Dissolved	**2.9**				mg/L			05/21/19 13:48	1
Depth to Water from Top of Casing	**20.39**				ft			05/21/19 13:48	1

Client Sample ID: 107CR

Date Collected: 05/21/19 14:45
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0093**		0.0090		mg/L		05/24/19 07:41	05/29/19 05:33	1
Barium	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:33	1
Calcium	**19**		0.15		mg/L		05/24/19 07:41	05/29/19 05:33	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:42	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:33	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 05:33	1
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:33	1
Magnesium	**10**		0.24		mg/L		05/24/19 07:41	05/29/19 05:33	1
Manganese	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 05:33	1
Potassium	**4.4**		0.20		mg/L		05/24/19 07:41	05/29/19 05:33	1
Sodium	**54**		0.40		mg/L		05/24/19 07:41	05/29/19 05:33	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:33	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 15:35	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.2**				%			07/10/19 11:35	1
Calculated TDS	**210**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.86**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.45**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**200**		30		mg/L			06/02/19 16:46	3
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:22	1
Nitrate	ND	U	0.050		mg/L as N			05/23/19 08:28	1
Sulfate	**13**		5.0		mg/L			06/18/19 12:28	1
Chloride	**2.4**		0.50		mg/L			06/18/19 17:23	1
Total Dissolved Solids	**180**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 00:54	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/21/19 14:45	1
Temperature	**13.3**				Degrees C			05/21/19 14:45	1
Field pH	**7.84**				SU			05/21/19 14:45	1
Specific Conductance	**400**				umhos/cm			05/21/19 14:45	1
Ground Water Elevation	**245.65**				ft/msl			05/21/19 14:45	1
Field EH/ORP	**24.3**				millivolts			05/21/19 14:45	1
Oxygen, Dissolved	**8.1**				mg/L			05/21/19 14:45	1
Depth to Water from Top of Casing	**20.06**				ft			05/21/19 14:45	1

Client Sample ID: DUP-GW-02

Date Collected: 05/21/19 11:56
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-4

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/01/19 00:12	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/01/19 00:12	1
2-Butanone	ND	U	10		ug/L			06/01/19 00:12	1
2-Hexanone	ND	U	5.0		ug/L			06/01/19 00:12	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/01/19 00:12	1
Acetone	ND	U	10		ug/L			06/01/19 00:12	1
Benzene	ND	U	1.0		ug/L			06/01/19 00:12	1
Bromodichloromethane	ND	U	1.0		ug/L			06/01/19 00:12	1
Bromoform	ND	U	1.0		ug/L			06/01/19 00:12	1
Bromomethane	ND	U	1.0		ug/L			06/01/19 00:12	1
Carbon disulfide	ND	U	1.0		ug/L			06/01/19 00:12	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/01/19 00:12	1
Chlorobenzene	ND	U	1.0		ug/L			06/01/19 00:12	1
Chloroethane	ND	U	1.0		ug/L			06/01/19 00:12	1
Chloroform	ND	U	1.0		ug/L			06/01/19 00:12	1
Chloromethane	ND	U	1.0		ug/L			06/01/19 00:12	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/01/19 00:12	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/01/19 00:12	1
Dibromochloromethane	ND	U	1.0		ug/L			06/01/19 00:12	1
Ethylbenzene	ND	U	1.0		ug/L			06/01/19 00:12	1
Methylene Chloride	ND	U	1.0		ug/L			06/01/19 00:12	1
Styrene	ND	U	1.0		ug/L			06/01/19 00:12	1
Tetrachloroethene	ND	U	1.0		ug/L			06/01/19 00:12	1
Toluene	ND	U	1.0		ug/L			06/01/19 00:12	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/01/19 00:12	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/01/19 00:12	1
Trichloroethene	ND	U	1.0		ug/L			06/01/19 00:12	1
Vinyl acetate	ND	U	5.0		ug/L			06/01/19 00:12	1
Vinyl chloride	ND	U	1.0		ug/L			06/01/19 00:12	1
Xylenes, Total	ND	U	2.0		ug/L			06/01/19 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/01/19 00:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/01/19 00:12*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/01/19 00:12*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/01/19 00:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 05:48	1
Barium	**0.016**		0.0050		mg/L		05/24/19 07:41	05/29/19 05:48	1
Calcium	**14**		0.15		mg/L		05/24/19 07:41	05/29/19 05:48	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:46	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:48	1
Iron	**0.65**		0.030		mg/L		05/24/19 07:41	05/29/19 05:48	1

Client Sample ID: DUP-GW-02

Date Collected: 05/21/19 11:56
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-4

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:48	1
Magnesium	**17**		0.24		mg/L		05/24/19 07:41	05/29/19 05:48	1
Manganese	**0.44**		0.010		mg/L		05/24/19 07:41	05/29/19 05:48	1
Potassium	**1.5**		0.20		mg/L		05/24/19 07:41	05/29/19 05:48	1
Sodium	**9.8**		0.40		mg/L		05/24/19 07:41	05/29/19 05:48	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:48	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.66**		0.25		mg/L		06/03/19 11:30	06/07/19 00:01	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.7**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.46**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			06/02/19 19:18	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:23	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 22:15	1
Sulfate	ND	U	5.0		mg/L			06/18/19 12:28	1
Chloride	**2.8**		0.50		mg/L			06/18/19 17:25	1
Total Dissolved Solids	**120**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 01:08	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.9**				NTU			05/21/19 11:56	1
Temperature	**14.2**				Degrees C			05/21/19 11:56	1
Field pH	**6.61**				SU			05/21/19 11:56	1
Specific Conductance	**264**				umhos/cm			05/21/19 11:56	1
Ground Water Elevation	**264.80**				ft/msl			05/21/19 11:56	1
Field EH/ORP	**118.3**				millivolts			05/21/19 11:56	1
Oxygen, Dissolved	**2.0**				mg/L			05/21/19 11:56	1
Depth to Water from Top of Casing	**7.27**				ft			05/21/19 11:56	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/21/19 00:00
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-5

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/30/19 02:54	1
2-Butanone	ND	U	10		ug/L			05/30/19 02:54	1
2-Hexanone	ND	U	5.0		ug/L			05/30/19 02:54	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/30/19 02:54	1
Acetone	ND	U	10		ug/L			05/30/19 02:54	1
Benzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromodichloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromoform	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromomethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Carbon disulfide	ND	U	1.0		ug/L			05/30/19 02:54	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Chlorobenzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloroform	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:54	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Styrene	ND	U	1.0		ug/L			05/30/19 02:54	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
Toluene	ND	U	1.0		ug/L			05/30/19 02:54	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:54	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 02:54	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*05/30/19 02:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/30/19 02:54*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/30/19 02:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/30/19 02:54*	*1*

Client Sample ID: W11-1ER

Date Collected: 05/21/19 11:56
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 05:51	1
Barium	**0.016**		0.0050		mg/L		05/24/19 07:41	05/29/19 05:51	1
Calcium	**14**		0.15		mg/L		05/24/19 07:41	05/29/19 05:51	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:50	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:51	1
Iron	**0.59**		0.030		mg/L		05/24/19 07:41	05/29/19 05:51	1
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:51	1
Magnesium	**17**		0.24		mg/L		05/24/19 07:41	05/29/19 05:51	1
Manganese	**0.46**		0.010		mg/L		05/24/19 07:41	05/29/19 05:51	1
Potassium	**1.5**		0.20		mg/L		05/24/19 07:41	05/29/19 05:51	1
Sodium	**10**		0.40		mg/L		05/24/19 07:41	05/29/19 05:51	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:51	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.82**		0.25		mg/L		06/03/19 11:30	06/06/19 23:57	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.2**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.49**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			06/02/19 17:47	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:24	1
Nitrate	ND	U	0.050		mg/L as N			05/22/19 22:16	1
Sulfate	ND	U	5.0		mg/L			06/18/19 12:28	1
Chloride	**3.0**		0.50		mg/L			06/18/19 17:25	1
Total Dissolved Solids	**130**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 01:23	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.9**				NTU			05/21/19 11:56	1
Temperature	**14.2**				Degrees C			05/21/19 11:56	1
Field pH	**6.61**				SU			05/21/19 11:56	1
Specific Conductance	**264**				umhos/cm			05/21/19 11:56	1
Ground Water Elevation	**264.80**				ft/msl			05/21/19 11:56	1
Field EH/ORP	**118.6**				millivolts			05/21/19 11:56	1
Oxygen, Dissolved	**2.0**				mg/L			05/21/19 11:56	1
Depth to Water from Top of Casing	**7.27**				ft			05/21/19 11:56	1

Client Sample ID: W11-3E

Date Collected: 05/21/19 13:24
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-7

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/30/19 03:20	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/30/19 03:20	1
2-Butanone	ND	U	10		ug/L			05/30/19 03:20	1
2-Hexanone	ND	U	5.0		ug/L			05/30/19 03:20	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/30/19 03:20	1
Acetone	ND	U	10		ug/L			05/30/19 03:20	1
Benzene	ND	U	1.0		ug/L			05/30/19 03:20	1
Bromodichloromethane	ND	U	1.0		ug/L			05/30/19 03:20	1
Bromoform	ND	U	1.0		ug/L			05/30/19 03:20	1
Bromomethane	ND	U	1.0		ug/L			05/30/19 03:20	1
Carbon disulfide	ND	U	1.0		ug/L			05/30/19 03:20	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/30/19 03:20	1
Chlorobenzene	ND	U	1.0		ug/L			05/30/19 03:20	1
Chloroethane	ND	U	1.0		ug/L			05/30/19 03:20	1
Chloroform	ND	U	1.0		ug/L			05/30/19 03:20	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 03:20	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 03:20	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 03:20	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 03:20	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 03:20	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 03:20	1
Styrene	ND	U	1.0		ug/L			05/30/19 03:20	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 03:20	1
Toluene	ND	U	1.0		ug/L			05/30/19 03:20	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 03:20	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 03:20	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 03:20	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 03:20	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 03:20	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*05/30/19 03:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/30/19 03:20*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*05/30/19 03:20*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/30/19 03:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 05:55	1
Barium	**0.0095**		0.0050		mg/L		05/24/19 07:41	05/29/19 05:55	1
Calcium	**21**		0.15		mg/L		05/24/19 07:41	05/29/19 05:55	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:53	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:55	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 05:55	1

Client Sample ID: W11-3E

Date Collected: 05/21/19 13:24
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-7

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:55	1
Magnesium	**15**		0.24		mg/L		05/24/19 07:41	05/29/19 05:55	1
Manganese	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 05:55	1
Potassium	**1.6**		0.20		mg/L		05/24/19 07:41	05/29/19 05:55	1
Sodium	**11**		0.40		mg/L		05/24/19 07:41	05/29/19 05:55	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:55	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 16:03	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.3**				%			07/10/19 11:35	1
Calculated TDS	**130**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.49**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			06/02/19 16:41	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:25	1
Nitrate	**0.29**		0.050		mg/L as N			05/22/19 22:17	1
Sulfate	**7.4**		5.0		mg/L			06/18/19 12:28	1
Chloride	**2.6**		0.50		mg/L			06/18/19 17:25	1
Total Dissolved Solids	**140**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 01:37	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.9**				NTU			05/21/19 13:24	1
Temperature	**13.3**				Degrees C			05/21/19 13:24	1
Field pH	**7.13**				SU			05/21/19 13:24	1
Specific Conductance	**286**				umhos/cm			05/21/19 13:24	1
Ground Water Elevation	**258.30**				ft/msl			05/21/19 13:24	1
Field EH/ORP	**72.8**				millivolts			05/21/19 13:24	1
Oxygen, Dissolved	**2.9**				mg/L			05/21/19 13:24	1
Depth to Water from Top of Casing	**3.63**				ft			05/21/19 13:24	1

Client Sample ID: W12-5E

Date Collected: 05/21/19 15:43
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-8

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 05:59	1
Barium	**0.0066**		0.0050		mg/L		05/24/19 07:41	05/29/19 05:59	1
Calcium	**42**		0.15		mg/L		05/24/19 07:41	05/29/19 05:59	1
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/30/19 12:57	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:59	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 05:59	1
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 05:59	1
Magnesium	**4.5**		0.24		mg/L		05/24/19 07:41	05/29/19 05:59	1
Manganese	**0.013**		0.010		mg/L		05/24/19 07:41	05/29/19 05:59	1
Potassium	**3.5**		0.20		mg/L		05/24/19 07:41	05/29/19 05:59	1
Sodium	**0.93**		0.40		mg/L		05/24/19 07:41	05/29/19 05:59	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 05:59	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 05:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/03/19 11:30	06/06/19 23:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.45**				%			07/10/19 11:35	1
Calculated TDS	**130**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.0**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.51**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			06/02/19 16:41	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:25	1
Nitrate	**0.057**		0.050		mg/L as N			05/23/19 08:56	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/15/19 10:07	1
Sulfate	ND	U	5.0		mg/L			06/18/19 12:11	1
Chloride	**0.66**		0.50		mg/L			06/18/19 17:25	1
Total Dissolved Solids	**130**		5.0		mg/L			05/28/19 11:09	1
Total Organic Carbon	ND	U	1.0		mg/L			06/14/19 01:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/24/19 12:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/21/19 15:43	1
Temperature	**6.9**				Degrees C			05/21/19 15:43	1
Field pH	**7.24**				SU			05/21/19 15:43	1
Specific Conductance	**256**				umhos/cm			05/21/19 15:43	1
Ground Water Elevation	**252.14**				ft/msl			05/21/19 15:43	1
Field EH/ORP	**74.0**				millivolts			05/21/19 15:43	1
Oxygen, Dissolved	**2.0**				mg/L			05/21/19 15:43	1
Depth to Water from Top of Casing	**8.97**				ft			05/21/19 15:43	1

Client Sample ID: 629E

Date Collected: 05/15/19 14:00
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153899-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/23/19 18:45	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/23/19 18:45	1
2-Butanone	ND	U	10		ug/L			05/23/19 18:45	1
2-Hexanone	ND	U	5.0		ug/L			05/23/19 18:45	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/23/19 18:45	1
Acetone	ND	U	10		ug/L			05/23/19 18:45	1
Benzene	ND	U	1.0		ug/L			05/23/19 18:45	1
Bromodichloromethane	ND	U	1.0		ug/L			05/23/19 18:45	1
Bromoform	ND	U	1.0		ug/L			05/23/19 18:45	1
Bromomethane	ND	U	1.0		ug/L			05/23/19 18:45	1
Carbon disulfide	ND	U	1.0		ug/L			05/23/19 18:45	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/23/19 18:45	1
Chlorobenzene	ND	U	1.0		ug/L			05/23/19 18:45	1
Chloroethane	ND	U	1.0		ug/L			05/23/19 18:45	1
Chloroform	ND	U	1.0		ug/L			05/23/19 18:45	1
Chloromethane	ND	U	1.0		ug/L			05/23/19 18:45	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 18:45	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 18:45	1
Dibromochloromethane	ND	U	1.0		ug/L			05/23/19 18:45	1
Ethylbenzene	ND	U	1.0		ug/L			05/23/19 18:45	1
Methylene Chloride	ND	U	1.0		ug/L			05/23/19 18:45	1
Styrene	ND	U	1.0		ug/L			05/23/19 18:45	1
Tetrachloroethene	ND	U	1.0		ug/L			05/23/19 18:45	1
Toluene	ND	U	1.0		ug/L			05/23/19 18:45	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 18:45	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 18:45	1
Trichloroethene	ND	U	1.0		ug/L			05/23/19 18:45	1
Vinyl acetate	ND	U	5.0		ug/L			05/23/19 18:45	1
Vinyl chloride	ND	U	1.0		ug/L			05/23/19 18:45	1
Xylenes, Total	ND	U	2.0		ug/L			05/23/19 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*05/23/19 18:45*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/23/19 18:45*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*05/23/19 18:45*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/23/19 18:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 06:03	1
Barium	**0.0059**		0.0050		mg/L		05/24/19 07:41	05/29/19 06:03	1
Calcium	**12**		0.15		mg/L		05/24/19 07:41	05/29/19 06:03	1
Chromium	**0.011**		0.010		mg/L		05/24/19 07:41	05/30/19 13:01	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 06:03	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 06:03	1

Client Sample ID: 629E

Date Collected: 05/15/19 14:00
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153899-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 06:03	1
Magnesium	**17**		0.24		mg/L		05/24/19 07:41	05/29/19 06:03	1
Manganese	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 06:03	1
Potassium	**0.94**		0.20		mg/L		05/24/19 07:41	05/29/19 06:03	1
Sodium	**9.8**		0.40		mg/L		05/24/19 07:41	05/29/19 06:03	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 06:03	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 06:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/02/19 12:12	06/04/19 11:03	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**7.1**				%			07/10/19 11:35	1
Calculated TDS	**100**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.97**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.38**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**100**		20		mg/L			05/29/19 17:40	2
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:26	1
Nitrate	**0.93**		0.050		mg/L as N			05/22/19 22:25	1
Sulfate	ND	U	5.0		mg/L			06/10/19 16:52	1
Chloride	**2.1**		0.50		mg/L			06/09/19 14:30	1
Total Dissolved Solids	**100**		5.0		mg/L			05/22/19 19:52	1
Total Organic Carbon	ND	U	1.0		mg/L			06/12/19 12:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/23/19 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.3**				NTU			05/15/19 14:00	1
Temperature	**8.2**				Degrees C			05/15/19 14:00	1
Field pH	**6.28**				SU			05/15/19 14:00	1
Specific Conductance	**267**				umhos/cm			05/15/19 14:00	1
Ground Water Elevation	**249.79**				ft/msl			05/15/19 14:00	1
Field EH/ORP	**88.4**				millivolts			05/15/19 14:00	1
Oxygen, Dissolved	**6.8**				mg/L			05/15/19 14:00	1
Depth to Water from Top of Casing	**15.89**				ft			05/15/19 14:00	1

Client Sample ID: 1008BR2

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/28/19 07:36	05/28/19 19:10	1
Barium	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:10	1
Calcium	**19**		0.15		mg/L		05/28/19 07:36	05/28/19 19:10	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/30/19 13:41	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:10	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 19:10	1
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:10	1
Magnesium	**2.1**		0.24		mg/L		05/28/19 07:36	05/28/19 19:10	1
Manganese	ND	U	0.010		mg/L		05/28/19 07:36	05/28/19 19:10	1
Potassium	**1.7**		0.20		mg/L		05/28/19 07:36	05/28/19 19:10	1
Sodium	**3.7**		0.40		mg/L		05/28/19 07:36	05/28/19 19:10	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:10	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 19:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.1**				%			07/10/19 11:35	1
Calculated TDS	**64**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.59**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**1.1**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**60**		10		mg/L			06/04/19 11:59	1
Ammonia as N	**0.071**		0.020		mg/L as N			06/12/19 08:51	1
Nitrate	**0.19**		0.050		mg/L as N			05/23/19 21:24	1
Chemical Oxygen Demand	**39**		10		mg/L			06/15/19 10:08	1
Sulfate	**7.0**		5.0		mg/L			06/19/19 20:43	1
Chloride	**1.8**		0.50		mg/L			06/19/19 15:23	1
Total Dissolved Solids	**38**		5.0		mg/L			05/29/19 08:19	1
Total Organic Carbon	ND	U *	1.0		mg/L			06/15/19 20:39	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/29/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/22/19 12:02	1
Temperature	**10.2**				Degrees C			05/22/19 12:02	1
Field pH	**7.88**				SU			05/22/19 12:02	1
Specific Conductance	**162**				umhos/cm			05/22/19 12:02	1
Ground Water Elevation	**259.59**				ft/msl			05/22/19 12:02	1
Field EH/ORP	**43.6**				millivolts			05/22/19 12:02	1
Oxygen, Dissolved	**5.9**				mg/L			05/22/19 12:02	1
Depth to Water from Top of Casing	**11.93**				ft			05/22/19 12:02	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 1008ER2

Date Collected: 05/22/19 11:22
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/28/19 07:36	05/28/19 19:14	1
Barium	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:14	1
Calcium	**55**		0.15		mg/L		05/28/19 07:36	05/28/19 19:14	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/30/19 13:45	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:14	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 19:14	1
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:14	1
Magnesium	**38**		0.24		mg/L		05/28/19 07:36	05/28/19 19:14	1
Manganese	**1.0**		0.010		mg/L		05/28/19 07:36	05/28/19 19:14	1
Potassium	**0.56**		0.20		mg/L		05/28/19 07:36	05/28/19 19:14	1
Sodium	**8.0**		0.40		mg/L		05/28/19 07:36	05/28/19 19:14	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:14	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 19:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 15:43	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.5**				%			07/10/19 11:35	1
Calculated TDS	**280**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.54**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**290**		40		mg/L			06/04/19 12:05	4
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 14:10	1
Nitrate	ND	U	0.050		mg/L as N			05/23/19 20:12	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/18/19 10:10	1
Sulfate	ND	U	5.0		mg/L			06/19/19 20:47	1
Chloride	**1.7**		0.50		mg/L			06/19/19 15:23	1
Total Dissolved Solids	**300**		5.0		mg/L			06/13/19 12:47	1
Total Organic Carbon	**1.8**		1.0		mg/L			06/21/19 02:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/29/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/22/19 11:22	1
Temperature	**10.3**				Degrees C			05/22/19 11:22	1
Field pH	**6.76**				SU			05/22/19 11:22	1
Specific Conductance	**558**				umhos/cm			05/22/19 11:22	1
Ground Water Elevation	**260.92**				ft/msl			05/22/19 11:22	1
Field EH/ORP	**40.5**				millivolts			05/22/19 11:22	1
Oxygen, Dissolved	**2.4**				mg/L			05/22/19 11:22	1
Depth to Water from Top of Casing	**10.58**				ft			05/22/19 11:22	1

Client Sample ID: DUP-GW-03

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/28/19 07:36	05/28/19 19:17	1
Barium	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:17	1
Calcium	**19**		0.15		mg/L		05/28/19 07:36	05/28/19 19:17	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/30/19 13:48	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:17	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 19:17	1
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:17	1
Magnesium	**2.2**		0.24		mg/L		05/28/19 07:36	05/28/19 19:17	1
Manganese	ND	U	0.010		mg/L		05/28/19 07:36	05/28/19 19:17	1
Potassium	**1.7**		0.20		mg/L		05/28/19 07:36	05/28/19 19:17	1
Sodium	**3.7**		0.40		mg/L		05/28/19 07:36	05/28/19 19:17	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:17	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 19:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 16:11	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.4**				%			07/10/19 11:35	1
Calculated TDS	**65**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.20**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**60**		10		mg/L			06/04/19 11:49	1
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 14:11	1
Nitrate	**0.18**		0.050		mg/L as N			05/23/19 21:25	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/15/19 10:08	1
Sulfate	**7.8**		5.0		mg/L			06/19/19 20:51	1
Chloride	**1.9**		0.50		mg/L			06/19/19 15:23	1
Total Dissolved Solids	**68**		5.0		mg/L			05/29/19 10:34	1
Total Organic Carbon	ND	U *	1.0		mg/L			06/15/19 21:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/29/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			05/22/19 12:02	1
Temperature	**10.3**				Degrees C			05/22/19 12:02	1
Field pH	**6.76**				SU			05/22/19 12:02	1
Specific Conductance	**558**				umhos/cm			05/22/19 12:02	1
Field EH/ORP	**40.5**				millivolts			05/22/19 12:02	1
Oxygen, Dissolved	**2.4**				mg/L			05/22/19 12:02	1

Client Sample ID: TB-01

Date Collected: 05/22/19 00:00
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/31/19 03:12	1
2-Butanone	ND	U	10		ug/L			05/31/19 03:12	1
2-Hexanone	ND	U	5.0		ug/L			05/31/19 03:12	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/31/19 03:12	1
Acetone	ND	U	10		ug/L			05/31/19 03:12	1
Benzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromodichloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromoform	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromomethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Carbon disulfide	ND	U	1.0		ug/L			05/31/19 03:12	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Chlorobenzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloroform	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:12	1
Dibromochloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Ethylbenzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Methylene Chloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Styrene	ND	U	1.0		ug/L			05/31/19 03:12	1
Tetrachloroethene	ND	U *	1.0		ug/L			05/31/19 03:12	1
Toluene	ND	U	1.0		ug/L			05/31/19 03:12	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:12	1
Trichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
Vinyl acetate	ND	U	5.0		ug/L			05/31/19 03:12	1
Vinyl chloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Xylenes, Total	ND	U	2.0		ug/L			05/31/19 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*			*05/31/19 03:12*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*			*05/31/19 03:12*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*			*05/31/19 03:12*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*			*05/31/19 03:12*	*1*

Client Sample ID: W12-4B

Date Collected: 05/22/19 15:21
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0090		mg/L		05/28/19 07:36	05/28/19 19:21	1
Barium	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:21	1
Calcium	**16**		0.15		mg/L		05/28/19 07:36	05/28/19 19:21	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/30/19 13:52	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:21	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 19:21	1
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:21	1
Magnesium	**3.1**		0.24		mg/L		05/28/19 07:36	05/28/19 19:21	1
Manganese	**0.010**		0.010		mg/L		05/28/19 07:36	05/28/19 19:21	1
Potassium	**3.6**		0.20		mg/L		05/28/19 07:36	05/28/19 19:21	1
Sodium	**12**		0.40		mg/L		05/28/19 07:36	05/28/19 19:21	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:21	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 19:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 15:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**5.1**				%			07/10/19 11:35	1
Calculated TDS	**80**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.2**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.59**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**73**		10		mg/L			06/04/19 11:49	1
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 14:11	1
Nitrate	ND	U	0.050		mg/L as N			05/23/19 20:16	1
Sulfate	ND	U	5.0		mg/L			06/25/19 10:56	1
Chloride	**1.7**		0.50		mg/L			06/23/19 09:23	1
Total Dissolved Solids	**100**		5.0		mg/L			05/29/19 10:34	1
Total Organic Carbon	ND	U *	1.0		mg/L			06/15/19 21:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/29/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.5**				NTU			05/22/19 15:21	1
Temperature	**12.4**				Degrees C			05/22/19 15:21	1
Field pH	**8.30**				SU			05/22/19 15:21	1
Specific Conductance	**171**				umhos/cm			05/22/19 15:21	1
Ground Water Elevation	**234.19**				ft/msl			05/22/19 15:21	1
Field EH/ORP	**3.4**				millivolts			05/22/19 15:21	1
Oxygen, Dissolved	**0.7**				mg/L			05/22/19 15:21	1
Depth to Water from Top of Casing	**17.57**				ft			05/22/19 15:21	1

Client Sample ID: W12-4E

Date Collected: 05/22/19 13:29
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-6

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:38	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/31/19 03:38	1
2-Butanone	ND	U	10		ug/L			05/31/19 03:38	1
2-Hexanone	ND	U	5.0		ug/L			05/31/19 03:38	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/31/19 03:38	1
Acetone	ND	U	10		ug/L			05/31/19 03:38	1
Benzene	ND	U	1.0		ug/L			05/31/19 03:38	1
Bromodichloromethane	ND	U	1.0		ug/L			05/31/19 03:38	1
Bromoform	ND	U	1.0		ug/L			05/31/19 03:38	1
Bromomethane	ND	U	1.0		ug/L			05/31/19 03:38	1
Carbon disulfide	ND	U	1.0		ug/L			05/31/19 03:38	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/31/19 03:38	1
Chlorobenzene	ND	U	1.0		ug/L			05/31/19 03:38	1
Chloroethane	ND	U	1.0		ug/L			05/31/19 03:38	1
Chloroform	ND	U	1.0		ug/L			05/31/19 03:38	1
Chloromethane	ND	U	1.0		ug/L			05/31/19 03:38	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:38	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:38	1
Dibromochloromethane	ND	U	1.0		ug/L			05/31/19 03:38	1
Ethylbenzene	ND	U	1.0		ug/L			05/31/19 03:38	1
Methylene Chloride	ND	U	1.0		ug/L			05/31/19 03:38	1
Styrene	ND	U	1.0		ug/L			05/31/19 03:38	1
Tetrachloroethene	ND	U *	1.0		ug/L			05/31/19 03:38	1
Toluene	ND	U	1.0		ug/L			05/31/19 03:38	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:38	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:38	1
Trichloroethene	ND	U	1.0		ug/L			05/31/19 03:38	1
Vinyl acetate	ND	U	5.0		ug/L			05/31/19 03:38	1
Vinyl chloride	ND	U	1.0		ug/L			05/31/19 03:38	1
Xylenes, Total	ND	U	2.0		ug/L			05/31/19 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*05/31/19 03:38*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*05/31/19 03:38*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/31/19 03:38*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/31/19 03:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/28/19 07:36	05/28/19 19:25	1
Barium	**0.0065**		0.0050		mg/L		05/28/19 07:36	05/28/19 19:25	1
Calcium	**11**		0.15		mg/L		05/28/19 07:36	05/28/19 19:25	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/30/19 14:07	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:25	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 19:25	1

Client Sample ID: W12-4E

Date Collected: 05/22/19 13:29
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-6

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 19:25	1
Magnesium	**10**		0.24		mg/L		05/28/19 07:36	05/28/19 19:25	1
Manganese	ND	U	0.010		mg/L		05/28/19 07:36	05/28/19 19:25	1
Potassium	**0.63**		0.20		mg/L		05/28/19 07:36	05/28/19 19:25	1
Sodium	**9.1**		0.40		mg/L		05/28/19 07:36	05/28/19 19:25	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 19:25	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 19:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		05/31/19 11:17	06/03/19 16:07	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.4**				%			07/10/19 11:35	1
Calculated TDS	**83**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.49**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**85**		10		mg/L			06/09/19 15:40	1
Ammonia as N	**0.11**		0.020		mg/L as N			06/12/19 10:45	1
Nitrate	**0.36**		0.050		mg/L as N			05/23/19 21:26	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/15/19 10:07	1
Sulfate	**7.2**		5.0		mg/L			06/19/19 20:51	1
Chloride	**1.2**		0.50		mg/L			06/23/19 09:23	1
Total Dissolved Solids	**92**		5.0		mg/L			05/29/19 10:34	1
Total Organic Carbon	ND	U *	1.0		mg/L			06/15/19 22:41	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/29/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.5**				NTU			05/22/19 13:29	1
Temperature	**14.2**				Degrees C			05/22/19 13:29	1
Field pH	**6.36**				SU			05/22/19 13:29	1
Specific Conductance	**187**				umhos/cm			05/22/19 13:29	1
Ground Water Elevation	**245.63**				ft/msl			05/22/19 13:29	1
Field EH/ORP	**63.6**				millivolts			05/22/19 13:29	1
Oxygen, Dissolved	**4.1**				mg/L			05/22/19 13:29	1
Depth to Water from Top of Casing	**6.36**				ft			05/22/19 13:29	1

Client Sample ID: W12-1B

Date Collected: 06/04/19 15:46
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-1

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		06/06/19 09:58	06/14/19 17:13	1
Barium	**0.0059**		0.0050		mg/L		06/06/19 09:58	06/14/19 17:13	1
Calcium	**29**		0.15		mg/L		06/06/19 09:58	06/14/19 17:13	1
Chromium	ND	U	0.010		mg/L		06/06/19 09:58	06/14/19 17:13	1
Copper	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:13	1
Iron	ND	U	0.030		mg/L		06/06/19 09:58	06/15/19 13:16	1
Lead	ND	U	0.0050		mg/L		06/06/19 09:58	06/14/19 17:13	1
Magnesium	**5.6**		0.24		mg/L		06/06/19 09:58	06/14/19 17:13	1
Manganese	**0.083**		0.010		mg/L		06/06/19 09:58	06/14/19 17:13	1
Potassium	**4.2**		0.20		mg/L		06/06/19 09:58	06/14/19 17:13	1
Sodium	**3.5**		0.40		mg/L		06/06/19 09:58	06/14/19 17:13	1
Vanadium	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:13	1
Zinc	ND	U	0.020		mg/L		06/06/19 09:58	06/14/19 17:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/11/19 12:51	06/16/19 16:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.3**				%			07/10/19 11:35	1
Calculated TDS	**100**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.40**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**94**		20		mg/L			06/19/19 19:13	2
Ammonia as N	ND	U	0.020		mg/L as N			06/17/19 14:14	1
Nitrate	ND	U	0.050		mg/L as N			06/05/19 20:14	1
Sulfate	**7.1**		5.0		mg/L			07/01/19 13:11	1
Chloride	**1.6**		0.50		mg/L			06/19/19 18:35	1
Total Dissolved Solids	**110**		5.0		mg/L			06/10/19 09:07	1
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 01:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/13/19 08:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.2**				NTU			06/04/19 15:46	1
Temperature	**7.2**				Degrees C			06/04/19 15:46	1
Field pH	**7.20**				SU			06/04/19 15:46	1
Specific Conductance	**274**				umhos/cm			06/04/19 15:46	1
Ground Water Elevation	**242.9**				ft/msl			06/04/19 15:46	1
Field EH/ORP	**98.9**				millivolts			06/04/19 15:46	1
Oxygen, Dissolved	**0.8**				mg/L			06/04/19 15:46	1
Depth to Water from Top of Casing	**9.17**				ft			06/04/19 15:46	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-2E

Date Collected: 06/04/19 11:36
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/06/19 13:31	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/06/19 13:31	1
2-Butanone	ND	U	10		ug/L			06/06/19 13:31	1
2-Hexanone	ND	U	5.0		ug/L			06/06/19 13:31	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/06/19 13:31	1
Acetone	ND	U	10		ug/L			06/06/19 13:31	1
Benzene	ND	U	1.0		ug/L			06/06/19 13:31	1
Bromodichloromethane	ND	U	1.0		ug/L			06/06/19 13:31	1
Bromoform	ND	U	1.0		ug/L			06/06/19 13:31	1
Bromomethane	ND	U	1.0		ug/L			06/06/19 13:31	1
Carbon disulfide	ND	U	1.0		ug/L			06/06/19 13:31	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/06/19 13:31	1
Chlorobenzene	ND	U	1.0		ug/L			06/06/19 13:31	1
Chloroethane	ND	U	1.0		ug/L			06/06/19 13:31	1
Chloroform	ND	U	1.0		ug/L			06/06/19 13:31	1
Chloromethane	ND	U	1.0		ug/L			06/06/19 13:31	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/06/19 13:31	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/06/19 13:31	1
Dibromochloromethane	ND	U	1.0		ug/L			06/06/19 13:31	1
Ethylbenzene	ND	U	1.0		ug/L			06/06/19 13:31	1
Methylene Chloride	ND	U	1.0		ug/L			06/06/19 13:31	1
Styrene	ND	U	1.0		ug/L			06/06/19 13:31	1
Tetrachloroethene	ND	U	1.0		ug/L			06/06/19 13:31	1
Toluene	ND	U	1.0		ug/L			06/06/19 13:31	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/06/19 13:31	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/06/19 13:31	1
Trichloroethene	ND	U	1.0		ug/L			06/06/19 13:31	1
Vinyl acetate	ND	U	5.0		ug/L			06/06/19 13:31	1
Vinyl chloride	ND	U	1.0		ug/L			06/06/19 13:31	1
Xylenes, Total	ND	U	2.0		ug/L			06/06/19 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/06/19 13:31*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*06/06/19 13:31*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/06/19 13:31*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/06/19 13:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/06/19 09:58	06/14/19 17:16	1
Barium	**0.0085**		0.0050		mg/L		06/06/19 09:58	06/14/19 17:16	1
Calcium	**0.89**		0.15		mg/L		06/06/19 09:58	06/14/19 17:16	1
Chromium	ND	U	0.010		mg/L		06/06/19 09:58	06/14/19 17:16	1
Copper	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:16	1
Iron	ND	U	0.030		mg/L		06/06/19 09:58	06/15/19 13:20	1

Client Sample ID: W12-2E

Date Collected: 06/04/19 11:36
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-2

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/06/19 09:58	06/14/19 17:16	1
Magnesium	**0.53**		0.24		mg/L		06/06/19 09:58	06/14/19 17:16	1
Manganese	ND	U	0.010		mg/L		06/06/19 09:58	06/14/19 17:16	1
Potassium	**0.27**		0.20		mg/L		06/06/19 09:58	06/14/19 17:16	1
Sodium	**1.2**		0.40		mg/L		06/06/19 09:58	06/14/19 17:16	1
Vanadium	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:16	1
Zinc	ND	U	0.020		mg/L		06/06/19 09:58	06/14/19 17:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/11/19 12:51	06/16/19 16:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**65**				%			07/10/19 11:35	1
Calculated TDS	**4.0**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.3**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.11**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 18:06	1
Ammonia as N	ND	U	0.020		mg/L as N			06/17/19 14:19	1
Nitrate	ND	U	0.050		mg/L as N			06/05/19 20:16	1
Sulfate	ND	U	5.0		mg/L			07/01/19 13:11	1
Chloride	**1.1**		0.50		mg/L			06/19/19 18:33	1
Total Dissolved Solids	**5.0**		5.0		mg/L			06/10/19 09:07	1
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 01:38	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/10/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.0**				NTU			06/04/19 11:36	1
Temperature	**8.5**				Degrees C			06/04/19 11:36	1
Field pH	**4.41**				SU			06/04/19 11:36	1
Specific Conductance	**45**				umhos/cm			06/04/19 11:36	1
Ground Water Elevation	**261.79**				ft/msl			06/04/19 11:36	1
Field EH/ORP	**127.4**				millivolts			06/04/19 11:36	1
Oxygen, Dissolved	**12.0**				mg/L			06/04/19 11:36	1
Depth to Water from Top of Casing	**7.12**				ft			06/04/19 11:36	1

Client Sample ID: 104D

Date Collected: 06/04/19 14:08
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-3

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0092**		0.0090		mg/L		06/06/19 09:58	06/14/19 17:20	1
Barium	ND	U	0.0050		mg/L		06/06/19 09:58	06/14/19 17:20	1
Calcium	**3.5**		0.15		mg/L		06/06/19 09:58	06/14/19 17:20	1
Chromium	ND	U	0.010		mg/L		06/06/19 09:58	06/14/19 17:20	1
Copper	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:20	1
Iron	**0.063**		0.030		mg/L		06/24/19 08:30	06/25/19 10:58	1
Lead	ND	U	0.0050		mg/L		06/06/19 09:58	06/14/19 17:20	1
Magnesium	**0.47**		0.24		mg/L		06/06/19 09:58	06/14/19 17:20	1
Manganese	**0.022**		0.010		mg/L		06/06/19 09:58	06/14/19 17:20	1
Potassium	**1.0**		0.20		mg/L		06/06/19 09:58	06/14/19 17:20	1
Sodium	**39**		0.40		mg/L		06/06/19 09:58	06/14/19 17:20	1
Vanadium	ND	U	0.025		mg/L		06/06/19 09:58	06/14/19 17:20	1
Zinc	ND	U	0.020		mg/L		06/06/19 09:58	06/14/19 17:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/11/19 12:51	06/16/19 16:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.1**				%			07/10/19 11:35	1
Calculated TDS	**90**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.39**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**75**		10		mg/L			06/19/19 18:06	1
Ammonia as N	**0.10**		0.020		mg/L as N			06/17/19 14:20	1
Nitrate	**0.22**		0.050		mg/L as N			06/05/19 22:42	1
Sulfate	**17**		5.0		mg/L			07/01/19 13:58	1
Chloride	**1.0**		0.50		mg/L			06/19/19 18:33	1
Total Dissolved Solids	**95**		5.0		mg/L			06/10/19 09:07	1
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 01:53	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/10/19 12:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.0**				NTU			06/04/19 14:08	1
Temperature	**12.4**				Degrees C			06/04/19 14:08	1
Field pH	**8.35**				SU			06/04/19 14:08	1
Specific Conductance	**242**				umhos/cm			06/04/19 14:08	1
Ground Water Elevation	**249.61**				ft/msl			06/04/19 14:08	1
Field EH/ORP	**46.5**				millivolts			06/04/19 14:08	1
Oxygen, Dissolved	**2.4**				mg/L			06/04/19 14:08	1
Depth to Water from Top of Casing	**6.86**				ft			06/04/19 14:08	1

Client Sample ID: 626B

Date Collected: 06/05/19 15:03
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/07/19 16:41	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/07/19 16:41	1
2-Butanone	ND	U	10		ug/L			06/07/19 16:41	1
2-Hexanone	ND	U	5.0		ug/L			06/07/19 16:41	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/07/19 16:41	1
Acetone	ND	U	10		ug/L			06/07/19 16:41	1
Benzene	ND	U	1.0		ug/L			06/07/19 16:41	1
Bromodichloromethane	ND	U	1.0		ug/L			06/07/19 16:41	1
Bromoform	ND	U	1.0		ug/L			06/07/19 16:41	1
Bromomethane	ND	U	1.0		ug/L			06/07/19 16:41	1
Carbon disulfide	ND	U	1.0		ug/L			06/07/19 16:41	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/07/19 16:41	1
Chlorobenzene	ND	U	1.0		ug/L			06/07/19 16:41	1
Chloroethane	ND	U	1.0		ug/L			06/07/19 16:41	1
Chloroform	ND	U	1.0		ug/L			06/07/19 16:41	1
Chloromethane	ND	U	1.0		ug/L			06/07/19 16:41	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 16:41	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 16:41	1
Dibromochloromethane	ND	U	1.0		ug/L			06/07/19 16:41	1
Ethylbenzene	ND	U	1.0		ug/L			06/07/19 16:41	1
Methylene Chloride	ND	U	1.0		ug/L			06/07/19 16:41	1
Styrene	ND	U	1.0		ug/L			06/07/19 16:41	1
Tetrachloroethene	ND	U	1.0		ug/L			06/07/19 16:41	1
Toluene	ND	U	1.0		ug/L			06/07/19 16:41	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 16:41	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 16:41	1
Trichloroethene	ND	U	1.0		ug/L			06/07/19 16:41	1
Vinyl acetate	ND	U	5.0		ug/L			06/07/19 16:41	1
Vinyl chloride	ND	U	1.0		ug/L			06/07/19 16:41	1
Xylenes, Total	ND	U	2.0		ug/L			06/07/19 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/07/19 16:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/07/19 16:41*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/07/19 16:41*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/07/19 16:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/10/19 13:02	06/14/19 20:06	1
Barium	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:06	1
Calcium	**9.9**		0.15		mg/L		06/10/19 13:02	06/14/19 20:06	1
Chromium	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:06	1
Copper	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:06	1
Iron	ND	U	0.030		mg/L		06/10/19 13:02	06/15/19 16:39	1

Client Sample ID: 626B
Date Collected: 06/05/19 15:03
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-1
Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:06	1
Magnesium	**1.7**		0.24		mg/L		06/10/19 13:02	06/14/19 20:06	1
Manganese	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:06	1
Potassium	**1.7**		0.20		mg/L		06/10/19 13:02	06/14/19 20:06	1
Sodium	**1.6**		0.40		mg/L		06/10/19 13:02	06/14/19 20:06	1
Vanadium	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:06	1
Zinc	ND	U	0.020		mg/L		06/10/19 13:02	06/14/19 20:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 04:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.4**				%			07/10/19 11:35	1
Calculated TDS	**35**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.76**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.30**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**34**		30		mg/L			06/19/19 20:19	3
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 10:26	1
Nitrate	**0.067**		0.050		mg/L as N			06/06/19 21:25	1
Sulfate	ND	U	5.0		mg/L			07/02/19 16:21	1
Chloride	ND	U	0.50		mg/L			06/19/19 20:02	1
Total Dissolved Solids	**27**		5.0		mg/L			06/11/19 14:17	1
Total Organic Carbon	**1.3**		1.0		mg/L			06/28/19 04:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/12/19 10:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.3**				NTU			06/05/19 15:03	1
Temperature	**11.2**				Degrees C			06/05/19 15:03	1
Field pH	**6.14**				SU			06/05/19 15:03	1
Specific Conductance	**90**				umhos/cm			06/05/19 15:03	1
Ground Water Elevation	**244.59**				ft/msl			06/05/19 15:03	1
Field EH/ORP	**51.1**				millivolts			06/05/19 15:03	1
Oxygen, Dissolved	**4.4**				mg/L			06/05/19 15:03	1
Depth to Water from Top of Casing	**12.39**				ft			06/05/19 15:03	1

Client Sample ID: 627A

Date Collected: 06/05/19 12:00
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:04	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/07/19 17:04	1
2-Butanone	ND	U	10		ug/L			06/07/19 17:04	1
2-Hexanone	ND	U	5.0		ug/L			06/07/19 17:04	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/07/19 17:04	1
Acetone	ND	U	10		ug/L			06/07/19 17:04	1
Benzene	ND	U	1.0		ug/L			06/07/19 17:04	1
Bromodichloromethane	ND	U	1.0		ug/L			06/07/19 17:04	1
Bromoform	ND	U	1.0		ug/L			06/07/19 17:04	1
Bromomethane	ND	U	1.0		ug/L			06/07/19 17:04	1
Carbon disulfide	ND	U	1.0		ug/L			06/07/19 17:04	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/07/19 17:04	1
Chlorobenzene	ND	U	1.0		ug/L			06/07/19 17:04	1
Chloroethane	ND	U	1.0		ug/L			06/07/19 17:04	1
Chloroform	ND	U	1.0		ug/L			06/07/19 17:04	1
Chloromethane	ND	U	1.0		ug/L			06/07/19 17:04	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:04	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 17:04	1
Dibromochloromethane	ND	U	1.0		ug/L			06/07/19 17:04	1
Ethylbenzene	ND	U	1.0		ug/L			06/07/19 17:04	1
Methylene Chloride	ND	U	1.0		ug/L			06/07/19 17:04	1
Styrene	ND	U	1.0		ug/L			06/07/19 17:04	1
Tetrachloroethene	ND	U	1.0		ug/L			06/07/19 17:04	1
Toluene	ND	U	1.0		ug/L			06/07/19 17:04	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:04	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 17:04	1
Trichloroethene	ND	U	1.0		ug/L			06/07/19 17:04	1
Vinyl acetate	ND	U	5.0		ug/L			06/07/19 17:04	1
Vinyl chloride	ND	U	1.0		ug/L			06/07/19 17:04	1
Xylenes, Total	ND	U	2.0		ug/L			06/07/19 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/07/19 17:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/07/19 17:04*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*06/07/19 17:04*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/07/19 17:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/10/19 13:02	06/14/19 20:10	1
Barium	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:10	1
Calcium	**11**		0.15		mg/L		06/10/19 13:02	06/14/19 20:10	1
Chromium	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:10	1
Copper	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:10	1
Iron	ND	U	0.030		mg/L		06/25/19 07:40	06/25/19 22:02	1

Client Sample ID: 627A

Date Collected: 06/05/19 12:00
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:10	1
Magnesium	**2.4**		0.24		mg/L		06/10/19 13:02	06/14/19 20:10	1
Manganese	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:10	1
Potassium	**2.8**		0.20		mg/L		06/10/19 13:02	06/14/19 20:10	1
Sodium	**18**		0.40		mg/L		06/10/19 13:02	06/14/19 20:10	1
Vanadium	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:10	1
Zinc	ND	U	0.020		mg/L		06/10/19 13:02	06/14/19 20:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 05:36	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.4**				%			07/10/19 11:35	1
Calculated TDS	**66**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.3**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.51**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**42**		10		mg/L			06/19/19 18:24	1
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 10:28	1
Nitrate	**0.083**		0.050		mg/L as N			06/06/19 21:26	1
Sulfate	**33**		5.0		mg/L			07/08/19 10:36	1
Chloride	**6.4**		0.50		mg/L			06/19/19 20:00	1
Total Dissolved Solids	**84**		5.0		mg/L			06/11/19 14:17	1
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 04:50	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/12/19 10:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.2**				NTU			06/05/19 12:00	1
Temperature	**17.0**				Degrees C			06/05/19 12:00	1
Field pH	**8.22**				SU			06/05/19 12:00	1
Specific Conductance	**166**				umhos/cm			06/05/19 12:00	1
Ground Water Elevation	**234.98**				ft/msl			06/05/19 12:00	1
Field EH/ORP	**57.4**				millivolts			06/05/19 12:00	1
Oxygen, Dissolved	**3.1**				mg/L			06/05/19 12:00	1
Depth to Water from Top of Casing	**2.01**				ft			06/05/19 12:00	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 628A

Date Collected: 06/05/19 13:10
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-3

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:27	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/07/19 17:27	1
2-Butanone	ND	U	10		ug/L			06/07/19 17:27	1
2-Hexanone	ND	U	5.0		ug/L			06/07/19 17:27	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/07/19 17:27	1
Acetone	ND	U	10		ug/L			06/07/19 17:27	1
Benzene	ND	U	1.0		ug/L			06/07/19 17:27	1
Bromodichloromethane	ND	U	1.0		ug/L			06/07/19 17:27	1
Bromoform	ND	U	1.0		ug/L			06/07/19 17:27	1
Bromomethane	ND	U	1.0		ug/L			06/07/19 17:27	1
Carbon disulfide	ND	U	1.0		ug/L			06/07/19 17:27	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/07/19 17:27	1
Chlorobenzene	ND	U	1.0		ug/L			06/07/19 17:27	1
Chloroethane	ND	U	1.0		ug/L			06/07/19 17:27	1
Chloroform	ND	U	1.0		ug/L			06/07/19 17:27	1
Chloromethane	ND	U	1.0		ug/L			06/07/19 17:27	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:27	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 17:27	1
Dibromochloromethane	ND	U	1.0		ug/L			06/07/19 17:27	1
Ethylbenzene	ND	U	1.0		ug/L			06/07/19 17:27	1
Methylene Chloride	ND	U	1.0		ug/L			06/07/19 17:27	1
Styrene	ND	U	1.0		ug/L			06/07/19 17:27	1
Tetrachloroethene	ND	U	1.0		ug/L			06/07/19 17:27	1
Toluene	ND	U	1.0		ug/L			06/07/19 17:27	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 17:27	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 17:27	1
Trichloroethene	ND	U	1.0		ug/L			06/07/19 17:27	1
Vinyl acetate	ND	U	5.0		ug/L			06/07/19 17:27	1
Vinyl chloride	ND	U	1.0		ug/L			06/07/19 17:27	1
Xylenes, Total	ND	U	2.0		ug/L			06/07/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*06/07/19 17:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/07/19 17:27*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/07/19 17:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/07/19 17:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/10/19 13:02	06/14/19 20:14	1
Barium	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:14	1
Calcium	**16**		0.15		mg/L		06/10/19 13:02	06/14/19 20:14	1
Chromium	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:14	1
Copper	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:14	1
Iron	ND	U	0.030		mg/L		06/25/19 07:40	06/25/19 22:05	1

Client Sample ID: 628A

Date Collected: 06/05/19 13:10
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-3

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 20:14	1
Magnesium	**4.3**		0.24		mg/L		06/10/19 13:02	06/14/19 20:14	1
Manganese	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 20:14	1
Potassium	**3.2**		0.20		mg/L		06/10/19 13:02	06/14/19 20:14	1
Sodium	**16**		0.40		mg/L		06/10/19 13:02	06/14/19 20:14	1
Vanadium	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 20:14	1
Zinc	ND	U	0.020		mg/L		06/10/19 13:02	06/14/19 20:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 04:33	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**7.3**				%			07/10/19 11:35	1
Calculated TDS	**79**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.4**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.78**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**63**		10		mg/L			06/19/19 18:24	1
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 10:30	1
Nitrate	ND	U	0.050		mg/L as N			06/06/19 18:41	1
Sulfate	**17**		5.0		mg/L			07/02/19 11:39	1
Chloride	**1.9**		0.50		mg/L			06/19/19 20:02	1
Total Dissolved Solids	**110**	**BL**	5.0		mg/L			06/12/19 08:06	1
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 05:04	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/12/19 10:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.4**				NTU			06/05/19 13:10	1
Temperature	**11.2**				Degrees C			06/05/19 13:10	1
Field pH	**8.14**				SU			06/05/19 13:10	1
Specific Conductance	**142**				umhos/cm			06/05/19 13:10	1
Ground Water Elevation	**239.62**				ft/msl			06/05/19 13:10	1
Field EH/ORP	**52.1**				millivolts			06/05/19 13:10	1
Oxygen, Dissolved	**0.6**				mg/L			06/05/19 13:10	1
Depth to Water from Top of Casing	**2.57**				ft			06/05/19 13:10	1

Client Sample ID: DUP-GW-04

Date Collected: 06/07/19 10:48
Date Received: 06/08/19 11:00

Lab Sample ID: 480-154654-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/11/19 07:40	06/11/19 16:38	1
Barium	**0.0054**		0.0050		mg/L		06/11/19 07:40	06/11/19 16:38	1
Calcium	**48**		0.15		mg/L		06/11/19 07:40	06/11/19 16:38	1
Chromium	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 16:38	1
Copper	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 16:38	1
Iron	ND	U	0.030		mg/L		06/11/19 07:40	06/11/19 16:38	1
Lead	ND	U	0.0050		mg/L		06/11/19 07:40	06/11/19 16:38	1
Magnesium	**15**		0.24		mg/L		06/11/19 07:40	06/11/19 16:38	1
Manganese	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 16:38	1
Potassium	**1.4**		0.20		mg/L		06/11/19 07:40	06/11/19 16:38	1
Sodium	**4.6**		0.40		mg/L		06/11/19 07:40	06/11/19 16:38	1
Vanadium	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 16:38	1
Zinc	ND	U	0.020		mg/L		06/11/19 07:40	06/11/19 16:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 05:40	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-16**				%			07/10/19 11:35	1
Calculated TDS	**170**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.58**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**190**		20		mg/L			06/21/19 14:47	2
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 13:57	1
Nitrate	**0.17**		0.050		mg/L as N			06/08/19 14:08	1
Sulfate	ND	U	5.0		mg/L			07/02/19 11:39	1
Chloride	**1.4**		0.50		mg/L			07/03/19 15:40	1
Total Dissolved Solids	**190**		5.0		mg/L			06/13/19 10:28	1
Total Organic Carbon	**1.2**		1.0		mg/L			07/03/19 18:00	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/13/19 08:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/07/19 10:48	1
Temperature	**11.4**				Degrees C			06/07/19 10:48	1
Field pH	**6.62**				SU			06/07/19 10:48	1
Specific Conductance	**329**				umhos/cm			06/07/19 10:48	1
Field EH/ORP	**93.9**				millivolts			06/07/19 10:48	1
Oxygen, Dissolved	**1.9**				mg/L			06/07/19 10:48	1

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-3E

Date Collected: 06/07/19 10:48
Date Received: 06/08/19 11:00

Lab Sample ID: 480-154654-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/11/19 07:40	06/11/19 16:42	1
Barium	**0.0051**		0.0050		mg/L		06/11/19 07:40	06/11/19 16:42	1
Calcium	**47**		0.15		mg/L		06/11/19 07:40	06/11/19 16:42	1
Chromium	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 16:42	1
Copper	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 16:42	1
Iron	ND	U	0.030		mg/L		06/11/19 07:40	06/11/19 16:42	1
Lead	ND	U	0.0050		mg/L		06/11/19 07:40	06/11/19 16:42	1
Magnesium	**14**		0.24		mg/L		06/11/19 07:40	06/11/19 16:42	1
Manganese	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 16:42	1
Potassium	**1.4**		0.20		mg/L		06/11/19 07:40	06/11/19 16:42	1
Sodium	**4.5**		0.40		mg/L		06/11/19 07:40	06/11/19 16:42	1
Vanadium	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 16:42	1
Zinc	ND	U	0.020		mg/L		06/11/19 07:40	06/11/19 16:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 04:57	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.3**				%			07/10/19 11:35	1
Calculated TDS	**180**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.99**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.55**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**190**		20		mg/L			06/21/19 13:12	2
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 13:58	1
Nitrate	**0.17**		0.050		mg/L as N			06/08/19 14:09	1
Sulfate	ND	U	5.0		mg/L			07/02/19 13:06	1
Chloride	**1.0**		0.50		mg/L			07/03/19 15:41	1
Total Dissolved Solids	**180**		5.0		mg/L			06/13/19 10:28	1
Total Organic Carbon	**1.5**		1.0		mg/L			07/03/19 18:43	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/17/19 08:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/07/19 10:48	1
Temperature	**11.4**				Degrees C			06/07/19 10:48	1
Field pH	**6.62**				SU			06/07/19 10:48	1
Specific Conductance	**329**				umhos/cm			06/07/19 10:48	1
Ground Water Elevation	**240.88**				ft/msl			06/07/19 10:48	1
Field EH/ORP	**93.9**				millivolts			06/07/19 10:48	1
Oxygen, Dissolved	**1.9**				mg/L			06/07/19 10:48	1
Depth to Water from Top of Casing	**5.54**				ft			06/07/19 10:48	1

Client Sample ID: 104C

Date Collected: 06/10/19 14:42
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0090		mg/L		06/12/19 09:24	06/18/19 16:23	1
Barium	**0.0071**		0.0050		mg/L		06/12/19 09:24	06/18/19 16:23	1
Calcium	**34**		0.15		mg/L		06/12/19 09:24	06/18/19 16:23	1
Chromium	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:23	1
Copper	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:23	1
Iron	**0.089**		0.030		mg/L		06/12/19 09:24	06/18/19 16:23	1
Lead	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:23	1
Magnesium	**6.9**		0.24		mg/L		06/12/19 09:24	06/18/19 16:23	1
Manganese	**0.55**		0.010		mg/L		06/12/19 09:24	06/18/19 16:23	1
Potassium	**3.3**		0.20		mg/L		06/12/19 09:24	06/18/19 16:23	1
Sodium	**8.3**		0.40		mg/L		06/12/19 09:24	06/18/19 16:23	1
Vanadium	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:23	1
Zinc	ND	U	0.020		mg/L		06/12/19 09:24	06/18/19 16:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 16:30	06/23/19 13:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.0**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.1**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.46**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			06/21/19 14:08	2
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 14:03	1
Nitrate	ND	U	0.050		mg/L as N			06/11/19 18:51	1
Sulfate	**12**		5.0		mg/L			07/08/19 10:36	1
Chloride	**2.7**		0.50		mg/L			07/03/19 16:09	1
Total Dissolved Solids	**130**		5.0		mg/L			06/13/19 10:28	1
Total Organic Carbon	ND	U	1.0		mg/L			07/03/19 22:11	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/14/19 10:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/10/19 14:42	1
Temperature	**12.9**				Degrees C			06/10/19 14:42	1
Field pH	**7.50**				SU			06/10/19 14:42	1
Specific Conductance	**280**				umhos/cm			06/10/19 14:42	1
Ground Water Elevation	**749.56**				ft/msl			06/10/19 14:42	1
Field EH/ORP	**18.9**				millivolts			06/10/19 14:42	1
Oxygen, Dissolved	**1.5**				mg/L			06/10/19 14:42	1
Depth to Water from Top of Casing	**6.94**				ft			06/10/19 14:42	1

Client Sample ID: TB-07

Date Collected: 06/10/19 00:00
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/11/19 15:31	1
2-Butanone	ND	U *	10		ug/L			06/11/19 15:31	1
2-Hexanone	ND	U	5.0		ug/L			06/11/19 15:31	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/11/19 15:31	1
Acetone	ND	U	10		ug/L			06/11/19 15:31	1
Benzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromodichloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromoform	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromomethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Carbon disulfide	ND	U	1.0		ug/L			06/11/19 15:31	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Chlorobenzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloroform	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:31	1
Dibromochloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Ethylbenzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Methylene Chloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Styrene	ND	U	1.0		ug/L			06/11/19 15:31	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/11/19 15:31	1
Toluene	ND	U	1.0		ug/L			06/11/19 15:31	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:31	1
Trichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
Vinyl acetate	ND	U	5.0		ug/L			06/11/19 15:31	1
Vinyl chloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Xylenes, Total	ND	U	2.0		ug/L			06/11/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*06/11/19 15:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*			*06/11/19 15:31*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*			*06/11/19 15:31*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*			*06/11/19 15:31*	*1*

Client Sample ID: W9-1E

Date Collected: 06/10/19 11:11
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/12/19 09:24	06/18/19 16:30	1
Barium	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:30	1
Calcium	**17**		0.15		mg/L		06/12/19 09:24	06/18/19 16:30	1
Chromium	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:30	1
Copper	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:30	1
Iron	ND	U	0.030		mg/L		06/12/19 09:24	06/18/19 16:30	1
Lead	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:30	1
Magnesium	**12**		0.24		mg/L		06/12/19 09:24	06/18/19 16:30	1
Manganese	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:30	1
Potassium	**2.3**		0.20		mg/L		06/12/19 09:24	06/18/19 16:30	1
Sodium	**18**		0.40		mg/L		06/12/19 09:24	06/18/19 16:30	1
Vanadium	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:30	1
Zinc	ND	U	0.020		mg/L		06/12/19 09:24	06/18/19 16:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 16:30	06/23/19 13:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.2**				%			07/10/19 11:35	1
Calculated TDS	**120**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.89**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.39**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			06/21/19 14:08	2
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 14:05	1
Nitrate	ND	U	0.050		mg/L as N			06/11/19 18:53	1
Sulfate	ND	U	5.0		mg/L			07/03/19 17:31	1
Chloride	**2.3**		0.50		mg/L			07/03/19 16:09	1
Total Dissolved Solids	**110**		5.0		mg/L			06/13/19 10:28	1
Total Organic Carbon	ND	U	1.0		mg/L			07/03/19 22:26	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/14/19 10:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/10/19 11:11	1
Temperature	**20.1**				Degrees C			06/10/19 11:11	1
Field pH	**7.40**				SU			06/10/19 11:11	1
Specific Conductance	**280**				umhos/cm			06/10/19 11:11	1
Ground Water Elevation	**257.39**				ft/msl			06/10/19 11:11	1
Field EH/ORP	**107.5**				millivolts			06/10/19 11:11	1
Oxygen, Dissolved	**2.6**				mg/L			06/10/19 11:11	1
Depth to Water from Top of Casing	**2.91**				ft			06/10/19 11:11	1

Client Sample ID: W9-2E

Date Collected: 06/10/19 12:26
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-4

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:58	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/11/19 15:58	1
2-Butanone	ND	U *	10		ug/L			06/11/19 15:58	1
2-Hexanone	ND	U	5.0		ug/L			06/11/19 15:58	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/11/19 15:58	1
Acetone	ND	U	10		ug/L			06/11/19 15:58	1
Benzene	ND	U	1.0		ug/L			06/11/19 15:58	1
Bromodichloromethane	ND	U	1.0		ug/L			06/11/19 15:58	1
Bromoform	ND	U	1.0		ug/L			06/11/19 15:58	1
Bromomethane	ND	U	1.0		ug/L			06/11/19 15:58	1
Carbon disulfide	ND	U	1.0		ug/L			06/11/19 15:58	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/11/19 15:58	1
Chlorobenzene	ND	U	1.0		ug/L			06/11/19 15:58	1
Chloroethane	ND	U	1.0		ug/L			06/11/19 15:58	1
Chloroform	ND	U	1.0		ug/L			06/11/19 15:58	1
Chloromethane	ND	U	1.0		ug/L			06/11/19 15:58	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:58	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:58	1
Dibromochloromethane	ND	U	1.0		ug/L			06/11/19 15:58	1
Ethylbenzene	ND	U	1.0		ug/L			06/11/19 15:58	1
Methylene Chloride	ND	U	1.0		ug/L			06/11/19 15:58	1
Styrene	ND	U	1.0		ug/L			06/11/19 15:58	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/11/19 15:58	1
Toluene	ND	U	1.0		ug/L			06/11/19 15:58	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:58	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:58	1
Trichloroethene	ND	U	1.0		ug/L			06/11/19 15:58	1
Vinyl acetate	ND	U	5.0		ug/L			06/11/19 15:58	1
Vinyl chloride	ND	U	1.0		ug/L			06/11/19 15:58	1
Xylenes, Total	ND	U	2.0		ug/L			06/11/19 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/11/19 15:58*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*06/11/19 15:58*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/11/19 15:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/11/19 15:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/12/19 09:24	06/18/19 16:27	1
Barium	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:27	1
Calcium	**18**		0.15		mg/L		06/12/19 09:24	06/18/19 16:27	1
Chromium	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:27	1
Copper	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:27	1
Iron	ND	U	0.030		mg/L		06/12/19 09:24	06/18/19 16:27	1

Client Sample ID: W9-2E

Date Collected: 06/10/19 12:26
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-4

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:27	1
Magnesium	**14**		0.24		mg/L		06/12/19 09:24	06/18/19 16:27	1
Manganese	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:27	1
Potassium	**1.7**		0.20		mg/L		06/12/19 09:24	06/18/19 16:27	1
Sodium	**10**		0.40		mg/L		06/12/19 09:24	06/18/19 16:27	1
Vanadium	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:27	1
Zinc	ND	U	0.020		mg/L		06/12/19 09:24	06/18/19 16:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 16:30	06/23/19 13:47	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**5.4**				%			07/10/19 11:35	1
Calculated TDS	**110**				mg/L			07/10/19 11:35	1
TDS Ratio	**0.98**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.42**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			06/21/19 16:54	2
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 14:08	1
Nitrate	ND	U	0.050		mg/L as N			06/11/19 18:55	1
Sulfate	ND	U	5.0		mg/L			07/08/19 10:54	1
Chloride	**2.5**		0.50		mg/L			07/03/19 16:09	1
Total Dissolved Solids	**110**		5.0		mg/L			06/13/19 10:28	1
Total Organic Carbon	ND	U	1.0		mg/L			07/03/19 22:40	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/14/19 10:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.1**				NTU			06/10/19 12:26	1
Temperature	**23.5**				Degrees C			06/10/19 12:26	1
Field pH	**7.16**				SU			06/10/19 12:26	1
Specific Conductance	**263**				umhos/cm			06/10/19 12:26	1
Field EH/ORP	**55.2**				millivolts			06/10/19 12:26	1
Oxygen, Dissolved	**4.5**				mg/L			06/10/19 12:26	1
Depth to Water from Top of Casing	**4.51**				ft			06/10/19 12:26	1

Client Sample ID: 310C

Date Collected: 06/13/19 16:03
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/17/19 07:06	06/18/19 15:24	1
Barium	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:24	1
Calcium	**25**		0.15		mg/L		06/17/19 07:06	06/18/19 15:24	1
Chromium	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:24	1
Copper	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:24	1
Iron	**0.14**		0.030		mg/L		06/17/19 07:06	06/18/19 15:24	1
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:24	1
Magnesium	**2.5**		0.24		mg/L		06/17/19 07:06	06/18/19 15:24	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:24	1
Potassium	**2.1**		0.20		mg/L		06/17/19 07:06	06/18/19 15:24	1
Sodium	**4.2**		0.40		mg/L		06/17/19 07:06	06/18/19 15:24	1
Vanadium	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:24	1
Zinc	ND	U	0.020		mg/L		06/17/19 07:06	06/18/19 15:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/26/19 10:05	06/26/19 18:54	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**11**				%			07/10/19 11:35	1
Calculated TDS	**76**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.6**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.80**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			06/25/19 13:02	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:42	1
Nitrate	**0.23**		0.050		mg/L as N			06/14/19 21:29	1
Sulfate	ND	U	5.0		mg/L			07/09/19 15:46	1
Chloride	**4.2**		0.50		mg/L			06/25/19 09:40	1
Total Dissolved Solids	**120**		5.0		mg/L			06/19/19 08:26	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 01:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.4**		4.0		mg/L			06/19/19 12:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.3**				NTU			06/13/19 16:03	1
Temperature	**8.3**				Degrees C			06/13/19 16:03	1
Field pH	**8.38**				SU			06/13/19 16:03	1
Specific Conductance	**150**				umhos/cm			06/13/19 16:03	1
Field EH/ORP	**199.5**				millivolts			06/13/19 16:03	1
Oxygen, Dissolved	**6.9**				mg/L			06/13/19 16:03	1
Depth to Water from Top of Casing	**1.94**				ft			06/13/19 16:03	1

Client Sample ID: 310D

Date Collected: 06/13/19 15:25
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/17/19 07:06	06/18/19 15:28	1
Barium	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:28	1
Calcium	**20**		0.15		mg/L		06/17/19 07:06	06/18/19 15:28	1
Chromium	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:28	1
Copper	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:28	1
Iron	**0.099**		0.030		mg/L		06/17/19 07:06	06/18/19 15:28	1
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:28	1
Magnesium	**2.2**		0.24		mg/L		06/17/19 07:06	06/18/19 15:28	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:28	1
Potassium	**2.1**		0.20		mg/L		06/17/19 07:06	06/18/19 15:28	1
Sodium	**8.2**		0.40		mg/L		06/17/19 07:06	06/18/19 15:28	1
Vanadium	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:28	1
Zinc	ND	U	0.020		mg/L		06/17/19 07:06	06/18/19 15:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/26/19 10:05	06/26/19 18:50	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.0**				%			07/10/19 11:35	1
Calculated TDS	**73**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.5**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.74**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			06/25/19 13:02	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:42	1
Nitrate	**0.14**		0.050		mg/L as N			06/14/19 21:31	1
Sulfate	**8.5**		5.0		mg/L			07/09/19 14:18	1
Chloride	**2.7**		0.50		mg/L			06/25/19 09:40	1
Total Dissolved Solids	**110**		5.0		mg/L			06/19/19 08:26	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 02:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/19/19 12:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/13/19 15:25	1
Temperature	**9.4**				Degrees C			06/13/19 15:25	1
Field pH	**7.87**				SU			06/13/19 15:25	1
Specific Conductance	**149**				umhos/cm			06/13/19 15:25	1
Ground Water Elevation	**272.12**				ft/msl			06/13/19 15:25	1
Field EH/ORP	**210.0**				millivolts			06/13/19 15:25	1
Oxygen, Dissolved	**4.9**				mg/L			06/13/19 15:25	1
Depth to Water from Top of Casing	**0.58**				ft			06/13/19 15:25	1

Client Sample ID: TRANS

Date Collected: 06/13/19 14:30
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/17/19 07:06	06/18/19 15:31	1
Barium	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:31	1
Calcium	**12**		0.15		mg/L		06/17/19 07:06	06/18/19 15:31	1
Chromium	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:31	1
Copper	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:31	1
Iron	ND	U	0.030		mg/L		06/17/19 07:06	06/18/19 15:31	1
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 15:31	1
Magnesium	**2.0**		0.24		mg/L		06/17/19 07:06	06/18/19 15:31	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 15:31	1
Potassium	**1.7**		0.20		mg/L		06/17/19 07:06	06/18/19 15:31	1
Sodium	**14**		0.40		mg/L		06/17/19 07:06	06/18/19 15:31	1
Vanadium	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 15:31	1
Zinc	ND	U	0.020		mg/L		06/17/19 07:06	06/18/19 15:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/26/19 10:05	06/26/19 19:06	1
Aluminum	ND	U	0.25		mg/L		06/26/19 10:05	06/26/19 19:06	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**57.0**		1.0		ug/L			07/25/19 00:00	5

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.1**				%			07/10/19 11:35	1
Calculated TDS	**65**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.7**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.29**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**57**		10		mg/L			06/25/19 13:02	1
Ammonia as N	**0.093**		0.020		mg/L as N			06/24/19 09:45	1
Nitrate	**0.14**		0.050		mg/L as N			06/14/19 21:33	1
Nitrite	ND	U	0.050		mg/L as N			06/14/19 21:33	1
Chemical Oxygen Demand	**14**		10		mg/L			06/29/19 10:31	1
Sulfate	**8.3**		5.0		mg/L			07/09/19 15:46	1
Chloride	**1.3**		0.50		mg/L			06/25/19 09:40	1
Total Dissolved Solids	**110**		5.0		mg/L			06/19/19 08:26	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 02:26	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.05		SU			06/18/19 14:56	1
Temperature	**20.9**		0.001		Degrees C			06/18/19 14:56	1
Total Suspended Solids	ND	U	4.0		mg/L			06/19/19 12:05	1

Method: SM 9222B - Coliforms, Total (Membrane Filter)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	**Absent**		2		CFU/100mL			06/14/19 20:30	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TRANS

Date Collected: 06/13/19 14:30
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-3

Matrix: Ground Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.8				NTU			06/13/19 14:30	1
Temperature	9.5				Degrees C			06/13/19 14:30	1
Field pH	8.68				SU			06/13/19 14:30	1
Specific Conductance	133				umhos/cm			06/13/19 14:30	1
Field EH/ORP	210.6				millivolts			06/13/19 14:30	1
Oxygen, Dissolved	3.2				mg/L			06/13/19 14:30	1

Client Sample ID: 310AW
Date Collected: 06/14/19 12:23
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-1
Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 20:39	1
Barium	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 20:39	1
Calcium	**22**		0.15		mg/L		06/18/19 07:04	06/18/19 20:39	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 20:39	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 20:39	1
Iron	**0.030**	**BL**	0.030		mg/L		06/18/19 07:04	06/18/19 20:39	1
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 20:39	1
Magnesium	**2.4**		0.24		mg/L		06/18/19 07:04	06/18/19 20:39	1
Manganese	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 20:39	1
Potassium	**1.9**		0.20		mg/L		06/18/19 07:04	06/18/19 20:39	1
Sodium	**4.0**		0.40		mg/L		06/18/19 07:04	06/18/19 20:39	1
Vanadium	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 20:39	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 20:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/19/19 12:52	06/24/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.74**				%			07/10/19 11:35	1
Calculated TDS	**73**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.3**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.60**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**64**		10		mg/L			06/27/19 18:01	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 10:12	1
Nitrate	**0.22**		0.050		mg/L as N			06/15/19 12:12	1
Nitrite	ND	U	0.050		mg/L as N			06/15/19 12:12	1
Sulfate	**5.8**		5.0		mg/L			07/09/19 15:46	1
Chloride	**4.5**		0.50		mg/L			07/09/19 14:47	1
Total Dissolved Solids	**98**		5.0		mg/L			06/20/19 11:06	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 05:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/20/19 10:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/14/19 12:23	1
Temperature	**10.4**				Degrees C			06/14/19 12:23	1
Field pH	**8.44**				SU			06/14/19 12:23	1
Specific Conductance	**164**				umhos/cm			06/14/19 12:23	1
Ground Water Elevation	**271.90**				ft/msl			06/14/19 12:23	1
Field EH/ORP	**98.8**				millivolts			06/14/19 12:23	1
Oxygen, Dissolved	**7.1**				mg/L			06/14/19 12:23	1
Depth to Water from Top of Casing	**3.48**				ft			06/14/19 12:23	1

Client Sample ID: 624B

Date Collected: 06/14/19 13:39
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:22	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 05:22	1
2-Butanone	ND	U	10		ug/L			06/19/19 05:22	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 05:22	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 05:22	1
Acetone	ND	U	10		ug/L			06/19/19 05:22	1
Benzene	ND	U	1.0		ug/L			06/19/19 05:22	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 05:22	1
Bromoform	ND	U	1.0		ug/L			06/19/19 05:22	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 05:22	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 05:22	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 05:22	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 05:22	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 05:22	1
Chloroform	ND	U	1.0		ug/L			06/19/19 05:22	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 05:22	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:22	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 05:22	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 05:22	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 05:22	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 05:22	1
Styrene	ND	U	1.0		ug/L			06/19/19 05:22	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 05:22	1
Toluene	ND	U	1.0		ug/L			06/19/19 05:22	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:22	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 05:22	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 05:22	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 05:22	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 05:22	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*06/19/19 05:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*06/19/19 05:22*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*06/19/19 05:22*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/19/19 05:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 20:43	1
Barium	**0.023**		0.0050		mg/L		06/18/19 07:04	06/18/19 20:43	1
Calcium	**110**		0.15		mg/L		06/18/19 07:04	06/18/19 20:43	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 20:43	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 20:43	1
Iron	ND	U	0.030		mg/L		06/18/19 07:04	06/18/19 20:43	1

Client Sample ID: 624B

Date Collected: 06/14/19 13:39
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-2

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 20:43	1
Magnesium	**18**		0.24		mg/L		06/18/19 07:04	06/18/19 20:43	1
Manganese	**1.9**		0.010		mg/L		06/18/19 07:04	06/18/19 20:43	1
Potassium	**5.8**		0.20		mg/L		06/18/19 07:04	06/18/19 20:43	1
Sodium	**3.6**		0.40		mg/L		06/18/19 07:04	06/18/19 20:43	1
Vanadium	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 20:43	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 20:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/19/19 12:52	06/24/19 17:46	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.7**				%			07/10/19 11:35	1
Calculated TDS	**350**				mg/L			07/10/19 11:35	1
TDS Ratio	**1.2**				NONE			07/10/19 11:35	1
TDS to Conductivity Ratio	**0.63**				NONE			07/10/19 11:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**340**		40		mg/L			06/27/19 17:30	4
Ammonia as N	**0.11**		0.020		mg/L as N			06/24/19 10:12	1
Nitrate	ND	U	0.050		mg/L as N			06/15/19 11:50	1
Nitrite	ND	U	0.050		mg/L as N			06/15/19 11:50	1
Chemical Oxygen Demand	**15**		10		mg/L			06/30/19 09:30	1
Sulfate	**35**		5.0		mg/L			07/09/19 15:46	1
Chloride	**2.8**		0.50		mg/L			07/09/19 14:47	1
Total Dissolved Solids	**410**		5.0		mg/L			06/20/19 11:06	1
Total Organic Carbon	**2.5**		1.0		mg/L			07/07/19 05:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/20/19 10:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/14/19 13:39	1
Temperature	**9.2**				Degrees C			06/14/19 13:39	1
Field pH	**6.65**				SU			06/14/19 13:39	1
Specific Conductance	**649**				umhos/cm			06/14/19 13:39	1
Ground Water Elevation	**242.14**				ft/msl			06/14/19 13:39	1
Field EH/ORP	**152.9**				millivolts			06/14/19 13:39	1
Oxygen, Dissolved	**0.4**				mg/L			06/14/19 13:39	1
Depth to Water from Top of Casing	**7.40**				ft			06/14/19 13:39	1

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-152997-1	W11-6E	98	84	98	94
480-153454-1	1040B	96	88	93	96
480-153454-2	1041B	104	96	102	96
480-153454-3	1134B	98	91	92	96
480-153454-4	617A	105	92	102	93
480-153454-5	617C	100	91	96	93
480-153454-6	618AR	107	90	99	93
480-153454-7	618CR	106	90	101	97
480-153523-1	629B	96	93	93	92
480-153523-2	630E	94	89	91	90
480-153687-1	620A	101	106	100	105
480-153687-2	DUP-GW-01	102	104	97	103
480-153687-3	620C	99	107	103	101
480-153688-1	630B	86	93	91	97
480-153786-5	W11-2E	99	107	92	104
480-153888-1	101C	94	103	88	105
480-153888-2	107BR	99	103	92	102
480-153888-4	DUP-GW-02	100	104	97	104
480-153888-7	W11-3E	96	104	91	104
480-153899-1	629E	97	106	100	106
480-153929-6	W12-4E	95	108	99	102
480-154543-1	626B	108	103	105	100
480-154543-2	627A	109	98	107	104
480-154543-3	628A	106	97	105	100
480-154721-4	W9-2E	105	107	99	102
480-154949-2	624B	94	92	94	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-154465-2	W12-2E	105	87	96	92
LCS 480-472454/6	Lab Control Sample	88	95	89	101
LCS 480-473590/5	Lab Control Sample	98	95	93	99
LCS 480-474076/5	Lab Control Sample	98	91	97	90
LCS 480-474322/5	Lab Control Sample	94	106	92	106
LCS 480-474427/5	Lab Control Sample	95	106	93	104
LCS 480-474543/5	Lab Control Sample	84	101	93	100
LCS 480-474842/6	Lab Control Sample	100	103	102	102
LCS 480-474848/5	Lab Control Sample	94	107	94	103
LCS 480-475125/5	Lab Control Sample	94	106	94	107
LCS 480-475323/5	Lab Control Sample	103	105	92	104

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-475604/5	Lab Control Sample	100	104	94	107
LCS 480-476409/5	Lab Control Sample	98	89	99	94
LCS 480-476643/5	Lab Control Sample	104	99	108	99
LCS 480-477169/5	Lab Control Sample	107	110	99	105
LCS 480-478467/5	Lab Control Sample	96	96	93	94
LCSD 480-477169/9	Lab Control Sample Dup	108	108	100	102
MB 480-472454/8	Method Blank	93	87	92	99
MB 480-473590/7	Method Blank	104	89	99	92
MB 480-474076/7	Method Blank	94	88	92	91
MB 480-474322/7	Method Blank	94	96	96	100
MB 480-474427/7	Method Blank	94	106	94	103
MB 480-474543/7	Method Blank	85	101	92	100
MB 480-474842/8	Method Blank	103	100	104	101
MB 480-474848/7	Method Blank	100	109	102	104
MB 480-475125/7	Method Blank	96	107	93	102
MB 480-475323/7	Method Blank	99	107	99	103
MB 480-475604/7	Method Blank	100	105	101	101
MB 480-476409/7	Method Blank	105	88	100	93
MB 480-476643/7	Method Blank	103	97	103	103
MB 480-477169/7	Method Blank	100	102	103	101
MB 480-478467/8	Method Blank	96	93	97	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-153454-8	TB-01	101	86	101	93
480-153523-3	TB-01	92	90	91	91
480-153687-4	TB-01	103	109	103	105
480-153688-3	TB-01	86	95	95	94
480-153786-4	TB-01	101	100	101	102
480-153888-5	TB-01	97	100	96	99
480-153929-4	TB-01	99	106	98	105
480-154721-2	TB-07	103	107	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-472454/8
Matrix: Water
Analysis Batch: 472454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/13/19 10:51	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/13/19 10:51	1
2-Butanone	ND	U	10		ug/L			05/13/19 10:51	1
2-Hexanone	ND	U	5.0		ug/L			05/13/19 10:51	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/13/19 10:51	1
Acetone	ND	U	10		ug/L			05/13/19 10:51	1
Benzene	ND	U	1.0		ug/L			05/13/19 10:51	1
Bromodichloromethane	ND	U	1.0		ug/L			05/13/19 10:51	1
Bromoform	ND	U	1.0		ug/L			05/13/19 10:51	1
Bromomethane	ND	U	1.0		ug/L			05/13/19 10:51	1
Carbon disulfide	ND	U	1.0		ug/L			05/13/19 10:51	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/13/19 10:51	1
Chlorobenzene	ND	U	1.0		ug/L			05/13/19 10:51	1
Chloroethane	ND	U	1.0		ug/L			05/13/19 10:51	1
Chloroform	ND	U	1.0		ug/L			05/13/19 10:51	1
Chloromethane	ND	U	1.0		ug/L			05/13/19 10:51	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/13/19 10:51	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/13/19 10:51	1
Dibromochloromethane	ND	U	1.0		ug/L			05/13/19 10:51	1
Ethylbenzene	ND	U	1.0		ug/L			05/13/19 10:51	1
Methylene Chloride	ND	U	1.0		ug/L			05/13/19 10:51	1
Styrene	ND	U	1.0		ug/L			05/13/19 10:51	1
Tetrachloroethene	ND	U	1.0		ug/L			05/13/19 10:51	1
Toluene	ND	U	1.0		ug/L			05/13/19 10:51	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/13/19 10:51	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/13/19 10:51	1
Trichloroethene	ND	U	1.0		ug/L			05/13/19 10:51	1
Vinyl acetate	ND	U	5.0		ug/L			05/13/19 10:51	1
Vinyl chloride	ND	U	1.0		ug/L			05/13/19 10:51	1
Xylenes, Total	ND	U	2.0		ug/L			05/13/19 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*05/13/19 10:51*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*05/13/19 10:51*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/13/19 10:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/13/19 10:51*	*1*

Lab Sample ID: LCS 480-472454/6
Matrix: Water
Analysis Batch: 472454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	22.4		ug/L		90	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-472454/6
Matrix: Water
Analysis Batch: 472454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	27.1		ug/L		108	76 - 122
1,1-Dichloroethane	25.0	22.1		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	23.4		ug/L		94	66 - 127
1,2-Dichloroethane	25.0	20.5		ug/L		82	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120
2-Butanone	125	99.9		ug/L		80	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone	125	102		ug/L		81	71 - 125
Acetone	125	109		ug/L		87	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.7		ug/L		99	80 - 122
Bromoform	25.0	26.2		ug/L		105	61 - 132
Bromomethane	25.0	20.0		ug/L		80	55 - 144
Carbon disulfide	25.0	24.0		ug/L		96	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	80 - 120
Chloroethane	25.0	19.7		ug/L		79	69 - 136
Chloroform	25.0	21.4		ug/L		85	73 - 127
Chloromethane	25.0	20.7		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	74 - 124
Dibromochloromethane	25.0	27.0		ug/L		108	75 - 125
Ethylbenzene	25.0	24.9		ug/L		100	77 - 123
Methylene Chloride	25.0	23.3		ug/L		93	75 - 124
Styrene	25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	80 - 120
Trichloroethene	25.0	24.0		ug/L		96	74 - 123
Vinyl acetate	50.0	40.9		ug/L		82	50 - 144
Vinyl chloride	25.0	21.6		ug/L		87	65 - 133
Xylenes, Total	50.0	47.9		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*89*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 480-473590/7
Matrix: Water
Analysis Batch: 473590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/19/19 22:24	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/19/19 22:24	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-473590/7
Matrix: Water
Analysis Batch: 473590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/19/19 22:24	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/19/19 22:24	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:24	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/19/19 22:24	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/19/19 22:24	1
2-Butanone	ND	U	10		ug/L			05/19/19 22:24	1
2-Hexanone	ND	U	5.0		ug/L			05/19/19 22:24	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/19/19 22:24	1
Acetone	ND	U	10		ug/L			05/19/19 22:24	1
Benzene	ND	U	1.0		ug/L			05/19/19 22:24	1
Bromodichloromethane	ND	U	1.0		ug/L			05/19/19 22:24	1
Bromoform	ND	U	1.0		ug/L			05/19/19 22:24	1
Bromomethane	ND	U	1.0		ug/L			05/19/19 22:24	1
Carbon disulfide	ND	U	1.0		ug/L			05/19/19 22:24	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/19/19 22:24	1
Chlorobenzene	ND	U	1.0		ug/L			05/19/19 22:24	1
Chloroethane	ND	U	1.0		ug/L			05/19/19 22:24	1
Chloroform	ND	U	1.0		ug/L			05/19/19 22:24	1
Chloromethane	ND	U	1.0		ug/L			05/19/19 22:24	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:24	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 22:24	1
Dibromochloromethane	ND	U	1.0		ug/L			05/19/19 22:24	1
Ethylbenzene	ND	U	1.0		ug/L			05/19/19 22:24	1
Methylene Chloride	ND	U	1.0		ug/L			05/19/19 22:24	1
Styrene	ND	U	1.0		ug/L			05/19/19 22:24	1
Tetrachloroethene	ND	U	1.0		ug/L			05/19/19 22:24	1
Toluene	ND	U	1.0		ug/L			05/19/19 22:24	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/19/19 22:24	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/19/19 22:24	1
Trichloroethene	ND	U	1.0		ug/L			05/19/19 22:24	1
Vinyl acetate	ND	U	5.0		ug/L			05/19/19 22:24	1
Vinyl chloride	ND	U	1.0		ug/L			05/19/19 22:24	1
Xylenes, Total	ND	U	2.0		ug/L			05/19/19 22:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/19/19 22:24*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/19/19 22:24*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/19/19 22:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/19/19 22:24*	*1*

Lab Sample ID: LCS 480-473590/5
Matrix: Water
Analysis Batch: 473590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	26.6		ug/L		106	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	26.8		ug/L		107	76 - 120		
1,1,2-Trichloroethane			25.0	25.1		ug/L		100	76 - 122		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-473590/5
Matrix: Water
Analysis Batch: 473590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.1		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	24.6		ug/L		98	66 - 127
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
2-Butanone	125	127		ug/L		101	57 - 140
2-Hexanone	125	138		ug/L		111	65 - 127
4-Methyl-2-pentanone	125	129		ug/L		104	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromodichloromethane	25.0	24.0		ug/L		96	80 - 122
Bromoform	25.0	24.4		ug/L		98	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	25.9		ug/L		104	59 - 134
Carbon tetrachloride	25.0	24.5		ug/L		98	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chloroethane	25.0	23.9		ug/L		96	69 - 136
Chloroform	25.0	24.1		ug/L		97	73 - 127
Chloromethane	25.0	23.1		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	22.9		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124
Dibromochloromethane	25.0	22.8		ug/L		91	75 - 125
Ethylbenzene	25.0	26.6		ug/L		106	77 - 123
Methylene Chloride	25.0	24.8		ug/L		99	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
Trichloroethene	25.0	24.6		ug/L		99	74 - 123
Vinyl acetate	50.0	47.5		ug/L		95	50 - 144
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133
Xylenes, Total	50.0	47.9		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 480-474076/7
Matrix: Water
Analysis Batch: 474076

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474076/7
Matrix: Water
Analysis Batch: 474076

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	U	1.0		ug/L			05/22/19 10:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/22/19 10:49	1
2-Butanone	ND	U	10		ug/L			05/22/19 10:49	1
2-Hexanone	ND	U	5.0		ug/L			05/22/19 10:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/22/19 10:49	1
Acetone	ND	U	10		ug/L			05/22/19 10:49	1
Benzene	ND	U	1.0		ug/L			05/22/19 10:49	1
Bromodichloromethane	ND	U	1.0		ug/L			05/22/19 10:49	1
Bromoform	ND	U	1.0		ug/L			05/22/19 10:49	1
Bromomethane	ND	U	1.0		ug/L			05/22/19 10:49	1
Carbon disulfide	ND	U	1.0		ug/L			05/22/19 10:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/22/19 10:49	1
Chlorobenzene	ND	U	1.0		ug/L			05/22/19 10:49	1
Chloroethane	ND	U	1.0		ug/L			05/22/19 10:49	1
Chloroform	ND	U	1.0		ug/L			05/22/19 10:49	1
Chloromethane	ND	U	1.0		ug/L			05/22/19 10:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 10:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 10:49	1
Dibromochloromethane	ND	U	1.0		ug/L			05/22/19 10:49	1
Ethylbenzene	ND	U	1.0		ug/L			05/22/19 10:49	1
Methylene Chloride	ND	U	1.0		ug/L			05/22/19 10:49	1
Styrene	ND	U	1.0		ug/L			05/22/19 10:49	1
Tetrachloroethene	ND	U	1.0		ug/L			05/22/19 10:49	1
Toluene	ND	U	1.0		ug/L			05/22/19 10:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 10:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 10:49	1
Trichloroethene	ND	U	1.0		ug/L			05/22/19 10:49	1
Vinyl acetate	ND	U	5.0		ug/L			05/22/19 10:49	1
Vinyl chloride	ND	U	1.0		ug/L			05/22/19 10:49	1
Xylenes, Total	ND	U	2.0		ug/L			05/22/19 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*05/22/19 10:49*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/22/19 10:49*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/22/19 10:49*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*05/22/19 10:49*	*1*

Lab Sample ID: LCS 480-474076/5
Matrix: Water
Analysis Batch: 474076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	23.7		ug/L		95	66 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474076/5
Matrix: Water
Analysis Batch: 474076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
2-Butanone	125	121		ug/L		97	57 - 140
2-Hexanone	125	124		ug/L		100	65 - 127
4-Methyl-2-pentanone	125	122		ug/L		98	71 - 125
Acetone	125	123		ug/L		98	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.6		ug/L		99	80 - 122
Bromoform	25.0	25.7		ug/L		103	61 - 132
Bromomethane	25.0	22.7		ug/L		91	55 - 144
Carbon disulfide	25.0	24.4		ug/L		98	59 - 134
Carbon tetrachloride	25.0	27.9		ug/L		112	72 - 134
Chlorobenzene	25.0	23.6		ug/L		94	80 - 120
Chloroethane	25.0	24.1		ug/L		96	69 - 136
Chloroform	25.0	23.7		ug/L		95	73 - 127
Chloromethane	25.0	23.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.4		ug/L		101	74 - 124
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Methylene Chloride	25.0	23.1		ug/L		92	75 - 124
Styrene	25.0	23.2		ug/L		93	80 - 120
Tetrachloroethene	25.0	24.6		ug/L		98	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	23.0		ug/L		92	80 - 120
Trichloroethene	25.0	25.4		ug/L		102	74 - 123
Vinyl acetate	50.0	48.4		ug/L		97	50 - 144
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133
Xylenes, Total	50.0	46.8		ug/L		94	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: MB 480-474322/7
Matrix: Water
Analysis Batch: 474322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/23/19 11:48	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/23/19 11:48	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/23/19 11:48	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/23/19 11:48	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/23/19 11:48	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/23/19 11:48	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474322/7
Matrix: Water
Analysis Batch: 474322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	U	1.0		ug/L			05/23/19 11:48	1
2-Butanone	ND	U	10		ug/L			05/23/19 11:48	1
2-Hexanone	ND	U	5.0		ug/L			05/23/19 11:48	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/23/19 11:48	1
Acetone	ND	U	10		ug/L			05/23/19 11:48	1
Benzene	ND	U	1.0		ug/L			05/23/19 11:48	1
Bromodichloromethane	ND	U	1.0		ug/L			05/23/19 11:48	1
Bromoform	ND	U	1.0		ug/L			05/23/19 11:48	1
Bromomethane	ND	U	1.0		ug/L			05/23/19 11:48	1
Carbon disulfide	ND	U	1.0		ug/L			05/23/19 11:48	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/23/19 11:48	1
Chlorobenzene	ND	U	1.0		ug/L			05/23/19 11:48	1
Chloroethane	ND	U	1.0		ug/L			05/23/19 11:48	1
Chloroform	ND	U	1.0		ug/L			05/23/19 11:48	1
Chloromethane	ND	U	1.0		ug/L			05/23/19 11:48	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 11:48	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 11:48	1
Dibromochloromethane	ND	U	1.0		ug/L			05/23/19 11:48	1
Ethylbenzene	ND	U	1.0		ug/L			05/23/19 11:48	1
Methylene Chloride	ND	U	1.0		ug/L			05/23/19 11:48	1
Styrene	ND	U	1.0		ug/L			05/23/19 11:48	1
Tetrachloroethene	ND	U	1.0		ug/L			05/23/19 11:48	1
Toluene	ND	U	1.0		ug/L			05/23/19 11:48	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 11:48	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 11:48	1
Trichloroethene	ND	U	1.0		ug/L			05/23/19 11:48	1
Vinyl acetate	ND	U	5.0		ug/L			05/23/19 11:48	1
Vinyl chloride	ND	U	1.0		ug/L			05/23/19 11:48	1
Xylenes, Total	ND	U	2.0		ug/L			05/23/19 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*05/23/19 11:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*05/23/19 11:48*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/23/19 11:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/23/19 11:48*	*1*

Lab Sample ID: LCS 480-474322/5
Matrix: Water
Analysis Batch: 474322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	23.5		ug/L		94	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	24.2		ug/L		97	76 - 120		
1,1,2-Trichloroethane			25.0	27.1		ug/L		108	76 - 122		
1,1-Dichloroethane			25.0	22.7		ug/L		91	77 - 120		
1,1-Dichloroethene			25.0	22.7		ug/L		91	66 - 127		
1,2-Dichloroethane			25.0	23.5		ug/L		94	75 - 120		
1,2-Dichloropropane			25.0	25.8		ug/L		103	76 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474322/5
Matrix: Water
Analysis Batch: 474322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	125	133		ug/L		106	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Methyl-2-pentanone	125	132		ug/L		106	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122
Bromoform	25.0	22.4		ug/L		90	61 - 132
Bromomethane	25.0	19.2		ug/L		77	55 - 144
Carbon disulfide	25.0	22.7		ug/L		91	59 - 134
Carbon tetrachloride	25.0	23.1		ug/L		92	72 - 134
Chlorobenzene	25.0	25.7		ug/L		103	80 - 120
Chloroethane	25.0	18.6		ug/L		74	69 - 136
Chloroform	25.0	22.3		ug/L		89	73 - 127
Chloromethane	25.0	18.2		ug/L		73	68 - 124
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	74 - 124
Dibromochloromethane	25.0	23.6		ug/L		94	75 - 125
Ethylbenzene	25.0	26.1		ug/L		104	77 - 123
Methylene Chloride	25.0	21.7		ug/L		87	75 - 124
Styrene	25.0	26.3		ug/L		105	80 - 120
Tetrachloroethene	25.0	28.3		ug/L		113	74 - 122
Toluene	25.0	26.4		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	27.1		ug/L		109	80 - 120
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Vinyl acetate	50.0	48.9		ug/L		98	50 - 144
Vinyl chloride	25.0	18.2		ug/L		73	65 - 133
Xylenes, Total	50.0	51.5		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 480-474427/7
Matrix: Water
Analysis Batch: 474427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/23/19 23:39	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/23/19 23:39	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/23/19 23:39	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/23/19 23:39	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/23/19 23:39	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/23/19 23:39	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/23/19 23:39	1
2-Butanone	ND	U	10	ug/L			05/23/19 23:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474427/7
Matrix: Water
Analysis Batch: 474427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			05/23/19 23:39	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/23/19 23:39	1
Acetone	ND	U	10		ug/L			05/23/19 23:39	1
Benzene	ND	U	1.0		ug/L			05/23/19 23:39	1
Bromodichloromethane	ND	U	1.0		ug/L			05/23/19 23:39	1
Bromoform	ND	U	1.0		ug/L			05/23/19 23:39	1
Bromomethane	ND	U	1.0		ug/L			05/23/19 23:39	1
Carbon disulfide	ND	U	1.0		ug/L			05/23/19 23:39	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/23/19 23:39	1
Chlorobenzene	ND	U	1.0		ug/L			05/23/19 23:39	1
Chloroethane	ND	U	1.0		ug/L			05/23/19 23:39	1
Chloroform	ND	U	1.0		ug/L			05/23/19 23:39	1
Chloromethane	ND	U	1.0		ug/L			05/23/19 23:39	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 23:39	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 23:39	1
Dibromochloromethane	ND	U	1.0		ug/L			05/23/19 23:39	1
Ethylbenzene	ND	U	1.0		ug/L			05/23/19 23:39	1
Methylene Chloride	ND	U	1.0		ug/L			05/23/19 23:39	1
Styrene	ND	U	1.0		ug/L			05/23/19 23:39	1
Tetrachloroethene	ND	U	1.0		ug/L			05/23/19 23:39	1
Toluene	ND	U	1.0		ug/L			05/23/19 23:39	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/23/19 23:39	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/23/19 23:39	1
Trichloroethene	ND	U	1.0		ug/L			05/23/19 23:39	1
Vinyl acetate	ND	U	5.0		ug/L			05/23/19 23:39	1
Vinyl chloride	ND	U	1.0		ug/L			05/23/19 23:39	1
Xylenes, Total	ND	U	2.0		ug/L			05/23/19 23:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*05/23/19 23:39*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/23/19 23:39*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*05/23/19 23:39*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/23/19 23:39*	*1*

Lab Sample ID: LCS 480-474427/5
Matrix: Water
Analysis Batch: 474427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	22.3		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	22.9		ug/L		92	66 - 127
1,2-Dichloroethane	25.0	23.1		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
2-Butanone	125	122		ug/L		97	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474427/5
Matrix: Water
Analysis Batch: 474427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone	125	122		ug/L		98	71 - 125
Acetone	125	115		ug/L		92	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	22.5		ug/L		90	80 - 122
Bromoform	25.0	21.2		ug/L		85	61 - 132
Bromomethane	25.0	18.4		ug/L		74	55 - 144
Carbon disulfide	25.0	22.2		ug/L		89	59 - 134
Carbon tetrachloride	25.0	23.4		ug/L		94	72 - 134
Chlorobenzene	25.0	25.6		ug/L		103	80 - 120
Chloroethane	25.0	17.8		ug/L		71	69 - 136
Chloroform	25.0	22.6		ug/L		90	73 - 127
Chloromethane	25.0	16.0	*	ug/L		64	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	74 - 124
Dibromochloromethane	25.0	22.9		ug/L		91	75 - 125
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Methylene Chloride	25.0	22.4		ug/L		90	75 - 124
Styrene	25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	25.0	27.6		ug/L		110	74 - 122
Toluene	25.0	26.1		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Vinyl acetate	50.0	44.1		ug/L		88	50 - 144
Vinyl chloride	25.0	16.7		ug/L		67	65 - 133
Xylenes, Total	50.0	50.3		ug/L		101	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 480-474543/7
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/24/19 10:54	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/24/19 10:54	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/24/19 10:54	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/24/19 10:54	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/24/19 10:54	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/24/19 10:54	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/24/19 10:54	1
2-Butanone	ND	U	10	ug/L			05/24/19 10:54	1
2-Hexanone	ND	U	5.0	ug/L			05/24/19 10:54	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			05/24/19 10:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474543/7
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	U	10		ug/L			05/24/19 10:54	1
Benzene	ND	U	1.0		ug/L			05/24/19 10:54	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 10:54	1
Bromoform	ND	U	1.0		ug/L			05/24/19 10:54	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 10:54	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 10:54	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 10:54	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 10:54	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 10:54	1
Chloroform	ND	U	1.0		ug/L			05/24/19 10:54	1
Chloromethane	ND	U	1.0		ug/L			05/24/19 10:54	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 10:54	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 10:54	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 10:54	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 10:54	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 10:54	1
Styrene	ND	U	1.0		ug/L			05/24/19 10:54	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 10:54	1
Toluene	ND	U	1.0		ug/L			05/24/19 10:54	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 10:54	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 10:54	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 10:54	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 10:54	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 10:54	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*77 - 120*		*05/24/19 10:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*05/24/19 10:54*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/24/19 10:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/24/19 10:54*	*1*

Lab Sample ID: LCS 480-474543/5
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.5		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	27.8		ug/L		111	77 - 120
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	27.8		ug/L		111	76 - 120
2-Butanone	125	109		ug/L		87	57 - 140
2-Hexanone	125	114		ug/L		91	65 - 127
4-Methyl-2-pentanone	125	111		ug/L		89	71 - 125
Acetone	125	97.3		ug/L		78	56 - 142

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474543/5
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	28.9		ug/L		116	71 - 124
Bromodichloromethane	25.0	27.5		ug/L		110	80 - 122
Bromoform	25.0	22.0		ug/L		88	61 - 132
Bromomethane	25.0	27.7		ug/L		111	55 - 144
Carbon disulfide	25.0	27.7		ug/L		111	59 - 134
Carbon tetrachloride	25.0	28.1		ug/L		112	72 - 134
Chlorobenzene	25.0	27.6		ug/L		110	80 - 120
Chloroethane	25.0	26.8		ug/L		107	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	23.6		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	27.9		ug/L		111	74 - 124
cis-1,3-Dichloropropene	25.0	29.7		ug/L		119	74 - 124
Dibromochloromethane	25.0	25.3		ug/L		101	75 - 125
Ethylbenzene	25.0	27.2		ug/L		109	77 - 123
Methylene Chloride	25.0	25.9		ug/L		104	75 - 124
Styrene	25.0	26.6		ug/L		106	80 - 120
Tetrachloroethene	25.0	26.6		ug/L		107	74 - 122
Toluene	25.0	28.4		ug/L		114	80 - 122
trans-1,2-Dichloroethene	25.0	28.5		ug/L		114	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
Trichloroethene	25.0	28.5		ug/L		114	74 - 123
Vinyl acetate	50.0	49.5		ug/L		99	50 - 144
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133
Xylenes, Total	50.0	54.2		ug/L		108	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 480-474842/8
Matrix: Water
Analysis Batch: 474842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/28/19 11:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/28/19 11:49	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/28/19 11:49	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/28/19 11:49	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/28/19 11:49	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/28/19 11:49	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/28/19 11:49	1
2-Butanone	ND	U	10	ug/L			05/28/19 11:49	1
2-Hexanone	ND	U	5.0	ug/L			05/28/19 11:49	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			05/28/19 11:49	1
Acetone	ND	U	10	ug/L			05/28/19 11:49	1
Benzene	ND	U	1.0	ug/L			05/28/19 11:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474842/8
Matrix: Water
Analysis Batch: 474842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND	U	1.0		ug/L			05/28/19 11:49	1
Bromoform	ND	U	1.0		ug/L			05/28/19 11:49	1
Bromomethane	ND	U	1.0		ug/L			05/28/19 11:49	1
Carbon disulfide	ND	U	1.0		ug/L			05/28/19 11:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/28/19 11:49	1
Chlorobenzene	ND	U	1.0		ug/L			05/28/19 11:49	1
Chloroethane	ND	U	1.0		ug/L			05/28/19 11:49	1
Chloroform	ND	U	1.0		ug/L			05/28/19 11:49	1
Chloromethane	ND	U	1.0		ug/L			05/28/19 11:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 11:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 11:49	1
Dibromochloromethane	ND	U	1.0		ug/L			05/28/19 11:49	1
Ethylbenzene	ND	U	1.0		ug/L			05/28/19 11:49	1
Methylene Chloride	ND	U	1.0		ug/L			05/28/19 11:49	1
Styrene	ND	U	1.0		ug/L			05/28/19 11:49	1
Tetrachloroethene	ND	U	1.0		ug/L			05/28/19 11:49	1
Toluene	ND	U	1.0		ug/L			05/28/19 11:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 11:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 11:49	1
Trichloroethene	ND	U	1.0		ug/L			05/28/19 11:49	1
Vinyl acetate	ND	U	5.0		ug/L			05/28/19 11:49	1
Vinyl chloride	ND	U	1.0		ug/L			05/28/19 11:49	1
Xylenes, Total	ND	U	2.0		ug/L			05/28/19 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*05/28/19 11:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/28/19 11:49*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*05/28/19 11:49*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/28/19 11:49*	*1*

Lab Sample ID: LCS 480-474842/6
Matrix: Water
Analysis Batch: 474842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.1		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	24.2		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	23.1		ug/L		92	66 - 127
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
2-Butanone	125	114		ug/L		91	57 - 140
2-Hexanone	125	119		ug/L		95	65 - 127
4-Methyl-2-pentanone	125	124		ug/L		99	71 - 125
Acetone	125	121		ug/L		97	56 - 142
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromodichloromethane	25.0	23.2		ug/L		93	80 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474842/6
Matrix: Water
Analysis Batch: 474842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	22.5		ug/L		90	61 - 132
Bromomethane	25.0	23.9		ug/L		95	55 - 144
Carbon disulfide	25.0	24.1		ug/L		96	59 - 134
Carbon tetrachloride	25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Chloroethane	25.0	24.6		ug/L		98	69 - 136
Chloroform	25.0	22.2		ug/L		89	73 - 127
Chloromethane	25.0	27.0		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	23.9		ug/L		96	74 - 124
Dibromochloromethane	25.0	23.7		ug/L		95	75 - 125
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Methylene Chloride	25.0	22.6		ug/L		90	75 - 124
Styrene	25.0	24.9		ug/L		100	80 - 120
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	25.4		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Vinyl acetate	50.0	42.3		ug/L		85	50 - 144
Vinyl chloride	25.0	27.4		ug/L		110	65 - 133
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 480-474848/7
Matrix: Water
Analysis Batch: 474848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/28/19 11:06	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/28/19 11:06	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/28/19 11:06	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/28/19 11:06	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/28/19 11:06	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/28/19 11:06	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/28/19 11:06	1
2-Butanone	ND	U	10	ug/L			05/28/19 11:06	1
2-Hexanone	ND	U	5.0	ug/L			05/28/19 11:06	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			05/28/19 11:06	1
Acetone	ND	U	10	ug/L			05/28/19 11:06	1
Benzene	ND	U	1.0	ug/L			05/28/19 11:06	1
Bromodichloromethane	ND	U	1.0	ug/L			05/28/19 11:06	1
Bromoform	ND	U	1.0	ug/L			05/28/19 11:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-474848/7
Matrix: Water
Analysis Batch: 474848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	U	1.0		ug/L			05/28/19 11:06	1
Carbon disulfide	ND	U	1.0		ug/L			05/28/19 11:06	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/28/19 11:06	1
Chlorobenzene	ND	U	1.0		ug/L			05/28/19 11:06	1
Chloroethane	ND	U	1.0		ug/L			05/28/19 11:06	1
Chloroform	ND	U	1.0		ug/L			05/28/19 11:06	1
Chloromethane	ND	U	1.0		ug/L			05/28/19 11:06	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 11:06	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 11:06	1
Dibromochloromethane	ND	U	1.0		ug/L			05/28/19 11:06	1
Ethylbenzene	ND	U	1.0		ug/L			05/28/19 11:06	1
Methylene Chloride	ND	U	1.0		ug/L			05/28/19 11:06	1
Styrene	ND	U	1.0		ug/L			05/28/19 11:06	1
Tetrachloroethene	ND	U	1.0		ug/L			05/28/19 11:06	1
Toluene	ND	U	1.0		ug/L			05/28/19 11:06	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 11:06	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 11:06	1
Trichloroethene	ND	U	1.0		ug/L			05/28/19 11:06	1
Vinyl acetate	ND	U	5.0		ug/L			05/28/19 11:06	1
Vinyl chloride	ND	U	1.0		ug/L			05/28/19 11:06	1
Xylenes, Total	ND	U	2.0		ug/L			05/28/19 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*05/28/19 11:06*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*05/28/19 11:06*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/28/19 11:06*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/28/19 11:06*	*1*

Lab Sample ID: LCS 480-474848/5
Matrix: Water
Analysis Batch: 474848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	24.2		ug/L		97	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	23.9		ug/L		96	76 - 120		
1,1,2-Trichloroethane			25.0	25.4		ug/L		102	76 - 122		
1,1-Dichloroethane			25.0	23.2		ug/L		93	77 - 120		
1,1-Dichloroethene			25.0	22.8		ug/L		91	66 - 127		
1,2-Dichloroethane			25.0	24.6		ug/L		98	75 - 120		
1,2-Dichloropropane			25.0	24.8		ug/L		99	76 - 120		
2-Butanone			125	124		ug/L		100	57 - 140		
2-Hexanone			125	124		ug/L		99	65 - 127		
4-Methyl-2-pentanone			125	123		ug/L		98	71 - 125		
Acetone			125	125		ug/L		100	56 - 142		
Benzene			25.0	24.8		ug/L		99	71 - 124		
Bromodichloromethane			25.0	24.5		ug/L		98	80 - 122		
Bromoform			25.0	24.5		ug/L		98	61 - 132		
Bromomethane			25.0	26.5		ug/L		106	55 - 144		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-474848/5
Matrix: Water
Analysis Batch: 474848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	22.1		ug/L		88	59 - 134
Carbon tetrachloride	25.0	23.7		ug/L		95	72 - 134
Chlorobenzene	25.0	26.4		ug/L		105	80 - 120
Chloroethane	25.0	23.8		ug/L		95	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	26.4		ug/L		105	68 - 124
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	74 - 124
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
Styrene	25.0	25.9		ug/L		104	80 - 120
Tetrachloroethene	25.0	28.8		ug/L		115	74 - 122
Toluene	25.0	26.3		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	80 - 120
Trichloroethene	25.0	25.6		ug/L		102	74 - 123
Vinyl acetate	50.0	47.5		ug/L		95	50 - 144
Vinyl chloride	25.0	25.2		ug/L		101	65 - 133
Xylenes, Total	50.0	51.6		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 480-475125/7
Matrix: Water
Analysis Batch: 475125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/29/19 22:52	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/29/19 22:52	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/29/19 22:52	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/29/19 22:52	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/29/19 22:52	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/29/19 22:52	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/29/19 22:52	1
2-Butanone	ND	U	10	ug/L			05/29/19 22:52	1
2-Hexanone	ND	U	5.0	ug/L			05/29/19 22:52	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			05/29/19 22:52	1
Acetone	ND	U	10	ug/L			05/29/19 22:52	1
Benzene	ND	U	1.0	ug/L			05/29/19 22:52	1
Bromodichloromethane	ND	U	1.0	ug/L			05/29/19 22:52	1
Bromoform	ND	U	1.0	ug/L			05/29/19 22:52	1
Bromomethane	ND	U	1.0	ug/L			05/29/19 22:52	1
Carbon disulfide	ND	U	1.0	ug/L			05/29/19 22:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-475125/7
Matrix: Water
Analysis Batch: 475125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND	U	1.0		ug/L			05/29/19 22:52	1
Chlorobenzene	ND	U	1.0		ug/L			05/29/19 22:52	1
Chloroethane	ND	U	1.0		ug/L			05/29/19 22:52	1
Chloroform	ND	U	1.0		ug/L			05/29/19 22:52	1
Chloromethane	ND	U	1.0		ug/L			05/29/19 22:52	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/29/19 22:52	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/29/19 22:52	1
Dibromochloromethane	ND	U	1.0		ug/L			05/29/19 22:52	1
Ethylbenzene	ND	U	1.0		ug/L			05/29/19 22:52	1
Methylene Chloride	ND	U	1.0		ug/L			05/29/19 22:52	1
Styrene	ND	U	1.0		ug/L			05/29/19 22:52	1
Tetrachloroethene	ND	U	1.0		ug/L			05/29/19 22:52	1
Toluene	ND	U	1.0		ug/L			05/29/19 22:52	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/29/19 22:52	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/29/19 22:52	1
Trichloroethene	ND	U	1.0		ug/L			05/29/19 22:52	1
Vinyl acetate	ND	U	5.0		ug/L			05/29/19 22:52	1
Vinyl chloride	ND	U	1.0		ug/L			05/29/19 22:52	1
Xylenes, Total	ND	U	2.0		ug/L			05/29/19 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*05/29/19 22:52*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/29/19 22:52*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*05/29/19 22:52*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/29/19 22:52*	*1*

Lab Sample ID: LCS 480-475125/5
Matrix: Water
Analysis Batch: 475125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	76 - 120
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	26.1		ug/L		104	66 - 127
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
2-Butanone	125	123		ug/L		98	57 - 140
2-Hexanone	125	128		ug/L		102	65 - 127
4-Methyl-2-pentanone	125	127		ug/L		102	71 - 125
Acetone	125	140		ug/L		112	56 - 142
Benzene	25.0	26.6		ug/L		106	71 - 124
Bromodichloromethane	25.0	23.7		ug/L		95	80 - 122
Bromoform	25.0	21.1		ug/L		85	61 - 132
Bromomethane	25.0	24.6		ug/L		98	55 - 144
Carbon disulfide	25.0	25.0		ug/L		100	59 - 134
Carbon tetrachloride	25.0	25.1		ug/L		101	72 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-475125/5
Matrix: Water
Analysis Batch: 475125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	25.0	26.8		ug/L		107	80 - 120
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	24.9		ug/L		99	73 - 127
Chloromethane	25.0	26.4		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	24.4		ug/L		97	74 - 124
Dibromochloromethane	25.0	23.6		ug/L		95	75 - 125
Ethylbenzene	25.0	27.5		ug/L		110	77 - 123
Methylene Chloride	25.0	25.7		ug/L		103	75 - 124
Styrene	25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	25.0	29.1		ug/L		117	74 - 122
Toluene	25.0	26.7		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	26.6		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	80 - 120
Trichloroethene	25.0	25.8		ug/L		103	74 - 123
Vinyl acetate	50.0	43.3		ug/L		87	50 - 144
Vinyl chloride	25.0	24.7		ug/L		99	65 - 133
Xylenes, Total	50.0	53.8		ug/L		108	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 480-475323/7
Matrix: Water
Analysis Batch: 475323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			05/30/19 23:11	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			05/30/19 23:11	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			05/30/19 23:11	1
1,1-Dichloroethane	ND	U	1.0	ug/L			05/30/19 23:11	1
1,1-Dichloroethene	ND	U	1.0	ug/L			05/30/19 23:11	1
1,2-Dichloroethane	ND	U	1.0	ug/L			05/30/19 23:11	1
1,2-Dichloropropane	ND	U	1.0	ug/L			05/30/19 23:11	1
2-Butanone	ND	U	10	ug/L			05/30/19 23:11	1
2-Hexanone	ND	U	5.0	ug/L			05/30/19 23:11	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			05/30/19 23:11	1
Acetone	ND	U	10	ug/L			05/30/19 23:11	1
Benzene	ND	U	1.0	ug/L			05/30/19 23:11	1
Bromodichloromethane	ND	U	1.0	ug/L			05/30/19 23:11	1
Bromoform	ND	U	1.0	ug/L			05/30/19 23:11	1
Bromomethane	ND	U	1.0	ug/L			05/30/19 23:11	1
Carbon disulfide	ND	U	1.0	ug/L			05/30/19 23:11	1
Carbon tetrachloride	ND	U	1.0	ug/L			05/30/19 23:11	1
Chlorobenzene	ND	U	1.0	ug/L			05/30/19 23:11	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-475323/7
Matrix: Water
Analysis Batch: 475323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	U	1.0		ug/L			05/30/19 23:11	1
Chloroform	ND	U	1.0		ug/L			05/30/19 23:11	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 23:11	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 23:11	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 23:11	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 23:11	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 23:11	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 23:11	1
Styrene	ND	U	1.0		ug/L			05/30/19 23:11	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 23:11	1
Toluene	ND	U	1.0		ug/L			05/30/19 23:11	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 23:11	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 23:11	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 23:11	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 23:11	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 23:11	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 23:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/30/19 23:11*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/30/19 23:11*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/30/19 23:11*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/30/19 23:11*	*1*

Lab Sample ID: LCS 480-475323/5
Matrix: Water
Analysis Batch: 475323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	24.6		ug/L		98	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	25.0		ug/L		100	76 - 120		
1,1,2-Trichloroethane			25.0	26.8		ug/L		107	76 - 122		
1,1-Dichloroethane			25.0	24.2		ug/L		97	77 - 120		
1,1-Dichloroethene			25.0	24.9		ug/L		100	66 - 127		
1,2-Dichloroethane			25.0	25.2		ug/L		101	75 - 120		
1,2-Dichloropropane			25.0	26.9		ug/L		108	76 - 120		
2-Butanone			125	137		ug/L		109	57 - 140		
2-Hexanone			125	126		ug/L		101	65 - 127		
4-Methyl-2-pentanone			125	124		ug/L		100	71 - 125		
Acetone			125	117		ug/L		94	56 - 142		
Benzene			25.0	26.5		ug/L		106	71 - 124		
Bromodichloromethane			25.0	23.5		ug/L		94	80 - 122		
Bromoform			25.0	18.5		ug/L		74	61 - 132		
Bromomethane			25.0	21.8		ug/L		87	55 - 144		
Carbon disulfide			25.0	23.4		ug/L		94	59 - 134		
Carbon tetrachloride			25.0	23.3		ug/L		93	72 - 134		
Chlorobenzene			25.0	27.7		ug/L		111	80 - 120		
Chloroethane			25.0	22.6		ug/L		91	69 - 136		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-475323/5
Matrix: Water
Analysis Batch: 475323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	21.5		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Dibromochloromethane	25.0	22.7		ug/L		91	75 - 125
Ethylbenzene	25.0	27.1		ug/L		108	77 - 123
Methylene Chloride	25.0	23.4		ug/L		93	75 - 124
Styrene	25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	25.0	32.4	*	ug/L		130	74 - 122
Toluene	25.0	27.3		ug/L		109	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	27.3		ug/L		109	74 - 123
Vinyl acetate	50.0	62.9		ug/L		126	50 - 144
Vinyl chloride	25.0	22.0		ug/L		88	65 - 133
Xylenes, Total	50.0	53.8		ug/L		108	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 480-475604/7
Matrix: Water
Analysis Batch: 475604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/31/19 22:51	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/31/19 22:51	1
2-Butanone	ND	U	10		ug/L			05/31/19 22:51	1
2-Hexanone	ND	U	5.0		ug/L			05/31/19 22:51	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/31/19 22:51	1
Acetone	ND	U	10		ug/L			05/31/19 22:51	1
Benzene	ND	U	1.0		ug/L			05/31/19 22:51	1
Bromodichloromethane	ND	U	1.0		ug/L			05/31/19 22:51	1
Bromoform	ND	U	1.0		ug/L			05/31/19 22:51	1
Bromomethane	ND	U	1.0		ug/L			05/31/19 22:51	1
Carbon disulfide	ND	U	1.0		ug/L			05/31/19 22:51	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/31/19 22:51	1
Chlorobenzene	ND	U	1.0		ug/L			05/31/19 22:51	1
Chloroethane	ND	U	1.0		ug/L			05/31/19 22:51	1
Chloroform	ND	U	1.0		ug/L			05/31/19 22:51	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-475604/7
Matrix: Water
Analysis Batch: 475604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	U	1.0		ug/L			05/31/19 22:51	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 22:51	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 22:51	1
Dibromochloromethane	ND	U	1.0		ug/L			05/31/19 22:51	1
Ethylbenzene	ND	U	1.0		ug/L			05/31/19 22:51	1
Methylene Chloride	ND	U	1.0		ug/L			05/31/19 22:51	1
Styrene	ND	U	1.0		ug/L			05/31/19 22:51	1
Tetrachloroethene	ND	U	1.0		ug/L			05/31/19 22:51	1
Toluene	ND	U	1.0		ug/L			05/31/19 22:51	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 22:51	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 22:51	1
Trichloroethene	ND	U	1.0		ug/L			05/31/19 22:51	1
Vinyl acetate	ND	U	5.0		ug/L			05/31/19 22:51	1
Vinyl chloride	ND	U	1.0		ug/L			05/31/19 22:51	1
Xylenes, Total	ND	U	2.0		ug/L			05/31/19 22:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*05/31/19 22:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*05/31/19 22:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/31/19 22:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/31/19 22:51*	*1*

Lab Sample ID: LCS 480-475604/5
Matrix: Water
Analysis Batch: 475604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	25.4		ug/L		102	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	25.6		ug/L		102	76 - 120		
1,1,2-Trichloroethane			25.0	27.3		ug/L		109	76 - 122		
1,1-Dichloroethane			25.0	25.1		ug/L		100	77 - 120		
1,1-Dichloroethene			25.0	25.5		ug/L		102	66 - 127		
1,2-Dichloroethane			25.0	25.2		ug/L		101	75 - 120		
1,2-Dichloropropane			25.0	26.9		ug/L		108	76 - 120		
2-Butanone			125	125		ug/L		100	57 - 140		
2-Hexanone			125	124		ug/L		99	65 - 127		
4-Methyl-2-pentanone			125	123		ug/L		98	71 - 125		
Acetone			125	114		ug/L		91	56 - 142		
Benzene			25.0	27.1		ug/L		108	71 - 124		
Bromodichloromethane			25.0	25.0		ug/L		100	80 - 122		
Bromoform			25.0	20.7		ug/L		83	61 - 132		
Bromomethane			25.0	27.2		ug/L		109	55 - 144		
Carbon disulfide			25.0	24.5		ug/L		98	59 - 134		
Carbon tetrachloride			25.0	24.1		ug/L		96	72 - 134		
Chlorobenzene			25.0	27.2		ug/L		109	80 - 120		
Chloroethane			25.0	26.6		ug/L		106	69 - 136		
Chloroform			25.0	25.4		ug/L		101	73 - 127		
Chloromethane			25.0	27.6		ug/L		110	68 - 124		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-475604/5
Matrix: Water
Analysis Batch: 475604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	74 - 124
Dibromochloromethane	25.0	24.0		ug/L		96	75 - 125
Ethylbenzene	25.0	27.1		ug/L		108	77 - 123
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	27.0		ug/L		108	80 - 120
Tetrachloroethene	25.0	30.2		ug/L		121	74 - 122
Toluene	25.0	27.9		ug/L		112	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	26.4		ug/L		105	80 - 120
Trichloroethene	25.0	27.2		ug/L		109	74 - 123
Vinyl acetate	50.0	45.9		ug/L		92	50 - 144
Vinyl chloride	25.0	27.0		ug/L		108	65 - 133
Xylenes, Total	50.0	54.0		ug/L		108	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 480-476409/7
Matrix: Water
Analysis Batch: 476409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
1,1-Dichloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
1,1-Dichloroethene	ND	U	1.0	ug/L			06/06/19 10:54	1
1,2-Dichloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
1,2-Dichloropropane	ND	U	1.0	ug/L			06/06/19 10:54	1
2-Butanone	ND	U	10	ug/L			06/06/19 10:54	1
2-Hexanone	ND	U	5.0	ug/L			06/06/19 10:54	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			06/06/19 10:54	1
Acetone	ND	U	10	ug/L			06/06/19 10:54	1
Benzene	ND	U	1.0	ug/L			06/06/19 10:54	1
Bromodichloromethane	ND	U	1.0	ug/L			06/06/19 10:54	1
Bromoform	ND	U	1.0	ug/L			06/06/19 10:54	1
Bromomethane	ND	U	1.0	ug/L			06/06/19 10:54	1
Carbon disulfide	ND	U	1.0	ug/L			06/06/19 10:54	1
Carbon tetrachloride	ND	U	1.0	ug/L			06/06/19 10:54	1
Chlorobenzene	ND	U	1.0	ug/L			06/06/19 10:54	1
Chloroethane	ND	U	1.0	ug/L			06/06/19 10:54	1
Chloroform	ND	U	1.0	ug/L			06/06/19 10:54	1
Chloromethane	ND	U	1.0	ug/L			06/06/19 10:54	1
cis-1,2-Dichloroethene	ND	U	1.0	ug/L			06/06/19 10:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-476409/7
Matrix: Water
Analysis Batch: 476409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/06/19 10:54	1
Dibromochloromethane	ND	U	1.0		ug/L			06/06/19 10:54	1
Ethylbenzene	ND	U	1.0		ug/L			06/06/19 10:54	1
Methylene Chloride	ND	U	1.0		ug/L			06/06/19 10:54	1
Styrene	ND	U	1.0		ug/L			06/06/19 10:54	1
Tetrachloroethene	ND	U	1.0		ug/L			06/06/19 10:54	1
Toluene	ND	U	1.0		ug/L			06/06/19 10:54	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/06/19 10:54	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/06/19 10:54	1
Trichloroethene	ND	U	1.0		ug/L			06/06/19 10:54	1
Vinyl acetate	ND	U	5.0		ug/L			06/06/19 10:54	1
Vinyl chloride	ND	U	1.0		ug/L			06/06/19 10:54	1
Xylenes, Total	ND	U	2.0		ug/L			06/06/19 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/06/19 10:54*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*06/06/19 10:54*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/06/19 10:54*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/06/19 10:54*	*1*

Lab Sample ID: LCS 480-476409/5
Matrix: Water
Analysis Batch: 476409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	26.1		ug/L		104	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	27.3		ug/L		109	76 - 120		
1,1,2-Trichloroethane			25.0	25.1		ug/L		101	76 - 122		
1,1-Dichloroethane			25.0	26.6		ug/L		106	77 - 120		
1,1-Dichloroethene			25.0	23.7		ug/L		95	66 - 127		
1,2-Dichloroethane			25.0	26.1		ug/L		104	75 - 120		
1,2-Dichloropropane			25.0	25.6		ug/L		103	76 - 120		
2-Butanone			125	131		ug/L		105	57 - 140		
2-Hexanone			125	135		ug/L		108	65 - 127		
4-Methyl-2-pentanone			125	123		ug/L		99	71 - 125		
Acetone			125	122		ug/L		98	56 - 142		
Benzene			25.0	25.0		ug/L		100	71 - 124		
Bromodichloromethane			25.0	25.1		ug/L		100	80 - 122		
Bromoform			25.0	23.8		ug/L		95	61 - 132		
Bromomethane			25.0	23.4		ug/L		93	55 - 144		
Carbon disulfide			25.0	25.1		ug/L		100	59 - 134		
Carbon tetrachloride			25.0	23.0		ug/L		92	72 - 134		
Chlorobenzene			25.0	23.9		ug/L		96	80 - 120		
Chloroethane			25.0	23.9		ug/L		95	69 - 136		
Chloroform			25.0	23.4		ug/L		94	73 - 127		
Chloromethane			25.0	23.4		ug/L		94	68 - 124		
cis-1,2-Dichloroethene			25.0	24.3		ug/L		97	74 - 124		
cis-1,3-Dichloropropene			25.0	24.1		ug/L		96	74 - 124		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-476409/5
Matrix: Water
Analysis Batch: 476409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	25.0	22.9		ug/L		92	75 - 125
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Methylene Chloride	25.0	25.1		ug/L		100	75 - 124
Styrene	25.0	22.7		ug/L		91	80 - 120
Tetrachloroethene	25.0	21.2		ug/L		85	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
Trichloroethene	25.0	25.6		ug/L		103	74 - 123
Vinyl acetate	50.0	49.8		ug/L		100	50 - 144
Vinyl chloride	25.0	23.0		ug/L		92	65 - 133
Xylenes, Total	50.0	45.2		ug/L		90	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 480-476643/7
Matrix: Water
Analysis Batch: 476643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
1,1-Dichloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
1,1-Dichloroethene	ND	U	1.0	ug/L			06/07/19 10:45	1
1,2-Dichloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
1,2-Dichloropropane	ND	U	1.0	ug/L			06/07/19 10:45	1
2-Butanone	ND	U	10	ug/L			06/07/19 10:45	1
2-Hexanone	ND	U	5.0	ug/L			06/07/19 10:45	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			06/07/19 10:45	1
Acetone	ND	U	10	ug/L			06/07/19 10:45	1
Benzene	ND	U	1.0	ug/L			06/07/19 10:45	1
Bromodichloromethane	ND	U	1.0	ug/L			06/07/19 10:45	1
Bromoform	ND	U	1.0	ug/L			06/07/19 10:45	1
Bromomethane	ND	U	1.0	ug/L			06/07/19 10:45	1
Carbon disulfide	ND	U	1.0	ug/L			06/07/19 10:45	1
Carbon tetrachloride	ND	U	1.0	ug/L			06/07/19 10:45	1
Chlorobenzene	ND	U	1.0	ug/L			06/07/19 10:45	1
Chloroethane	ND	U	1.0	ug/L			06/07/19 10:45	1
Chloroform	ND	U	1.0	ug/L			06/07/19 10:45	1
Chloromethane	ND	U	1.0	ug/L			06/07/19 10:45	1
cis-1,2-Dichloroethene	ND	U	1.0	ug/L			06/07/19 10:45	1
cis-1,3-Dichloropropene	ND	U	1.0	ug/L			06/07/19 10:45	1
Dibromochloromethane	ND	U	1.0	ug/L			06/07/19 10:45	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-476643/7
Matrix: Water
Analysis Batch: 476643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	U	1.0		ug/L			06/07/19 10:45	1
Methylene Chloride	ND	U	1.0		ug/L			06/07/19 10:45	1
Styrene	ND	U	1.0		ug/L			06/07/19 10:45	1
Tetrachloroethene	ND	U	1.0		ug/L			06/07/19 10:45	1
Toluene	ND	U	1.0		ug/L			06/07/19 10:45	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/07/19 10:45	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/07/19 10:45	1
Trichloroethene	ND	U	1.0		ug/L			06/07/19 10:45	1
Vinyl acetate	ND	U	5.0		ug/L			06/07/19 10:45	1
Vinyl chloride	ND	U	1.0		ug/L			06/07/19 10:45	1
Xylenes, Total	ND	U	2.0		ug/L			06/07/19 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/07/19 10:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/07/19 10:45*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/07/19 10:45*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/07/19 10:45*	*1*

Lab Sample ID: LCS 480-476643/5
Matrix: Water
Analysis Batch: 476643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	76 - 120
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	26.8		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	27.2		ug/L		109	66 - 127
1,2-Dichloroethane	25.0	26.4		ug/L		106	75 - 120
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120
2-Butanone	125	123		ug/L		99	57 - 140
2-Hexanone	125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone	125	130		ug/L		104	71 - 125
Acetone	125	143		ug/L		114	56 - 142
Benzene	25.0	26.7		ug/L		107	71 - 124
Bromodichloromethane	25.0	24.2		ug/L		97	80 - 122
Bromoform	25.0	21.6		ug/L		86	61 - 132
Bromomethane	25.0	24.9		ug/L		100	55 - 144
Carbon disulfide	25.0	26.4		ug/L		105	59 - 134
Carbon tetrachloride	25.0	24.0		ug/L		96	72 - 134
Chlorobenzene	25.0	25.4		ug/L		102	80 - 120
Chloroethane	25.0	24.4		ug/L		98	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	26.3		ug/L		105	68 - 124
cis-1,2-Dichloroethene	25.0	26.1		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	74 - 124
Dibromochloromethane	25.0	22.5		ug/L		90	75 - 125
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-476643/5
Matrix: Water
Analysis Batch: 476643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	25.2		ug/L		101	75 - 124
Styrene	25.0	25.0		ug/L		100	80 - 120
Tetrachloroethene	25.0	24.9		ug/L		99	74 - 122
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	23.9		ug/L		96	80 - 120
Trichloroethene	25.0	26.4		ug/L		106	74 - 123
Vinyl acetate	50.0	44.6		ug/L		89	50 - 144
Vinyl chloride	25.0	27.1		ug/L		109	65 - 133
Xylenes, Total	50.0	49.1		ug/L		98	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 480-477169/7
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
1,1-Dichloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
1,1-Dichloroethene	ND	U	1.0	ug/L			06/11/19 11:47	1
1,2-Dichloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
1,2-Dichloropropane	ND	U	1.0	ug/L			06/11/19 11:47	1
2-Butanone	ND	U	10	ug/L			06/11/19 11:47	1
2-Hexanone	ND	U	5.0	ug/L			06/11/19 11:47	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			06/11/19 11:47	1
Acetone	ND	U	10	ug/L			06/11/19 11:47	1
Benzene	ND	U	1.0	ug/L			06/11/19 11:47	1
Bromodichloromethane	ND	U	1.0	ug/L			06/11/19 11:47	1
Bromoform	ND	U	1.0	ug/L			06/11/19 11:47	1
Bromomethane	ND	U	1.0	ug/L			06/11/19 11:47	1
Carbon disulfide	ND	U	1.0	ug/L			06/11/19 11:47	1
Carbon tetrachloride	ND	U	1.0	ug/L			06/11/19 11:47	1
Chlorobenzene	ND	U	1.0	ug/L			06/11/19 11:47	1
Chloroethane	ND	U	1.0	ug/L			06/11/19 11:47	1
Chloroform	ND	U	1.0	ug/L			06/11/19 11:47	1
Chloromethane	ND	U	1.0	ug/L			06/11/19 11:47	1
cis-1,2-Dichloroethene	ND	U	1.0	ug/L			06/11/19 11:47	1
cis-1,3-Dichloropropene	ND	U	1.0	ug/L			06/11/19 11:47	1
Dibromochloromethane	ND	U	1.0	ug/L			06/11/19 11:47	1
Ethylbenzene	ND	U	1.0	ug/L			06/11/19 11:47	1
Methylene Chloride	ND	U	1.0	ug/L			06/11/19 11:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-477169/7
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	U	1.0		ug/L			06/11/19 11:47	1
Tetrachloroethene	ND	U	1.0		ug/L			06/11/19 11:47	1
Toluene	ND	U	1.0		ug/L			06/11/19 11:47	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 11:47	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 11:47	1
Trichloroethene	ND	U	1.0		ug/L			06/11/19 11:47	1
Vinyl acetate	ND	U	5.0		ug/L			06/11/19 11:47	1
Vinyl chloride	ND	U	1.0		ug/L			06/11/19 11:47	1
Xylenes, Total	ND	U	2.0		ug/L			06/11/19 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/11/19 11:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/11/19 11:47*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/11/19 11:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/11/19 11:47*	*1*

Lab Sample ID: LCS 480-477169/5
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	76 - 120
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	76 - 122
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	25.7		ug/L		103	66 - 127
1,2-Dichloroethane	25.0	26.3		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	27.7		ug/L		111	76 - 120
2-Butanone	125	237	*	ug/L		190	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone	125	117		ug/L		94	71 - 125
Acetone	125	127		ug/L		102	56 - 142
Benzene	25.0	27.2		ug/L		109	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	24.6		ug/L		99	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	24.4		ug/L		98	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	28.3		ug/L		113	80 - 120
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	23.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	74 - 124
Dibromochloromethane	25.0	26.6		ug/L		106	75 - 125
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
Methylene Chloride	25.0	24.0		ug/L		96	75 - 124
Styrene	25.0	27.0		ug/L		108	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-477169/5
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	32.8	*	ug/L		131	74 - 122
Toluene	25.0	27.6		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	80 - 120
Trichloroethene	25.0	28.4		ug/L		114	74 - 123
Vinyl acetate	50.0	64.6		ug/L		129	50 - 144
Vinyl chloride	25.0	23.6		ug/L		94	65 - 133
Xylenes, Total	50.0	54.3		ug/L		109	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 480-477169/9
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	28.1		ug/L		112	73 - 126	5	15
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	76 - 120	3	15
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	76 - 122	1	15
1,1-Dichloroethane	25.0	26.4		ug/L		106	77 - 120	3	20
1,1-Dichloroethene	25.0	27.1		ug/L		108	66 - 127	5	16
1,2-Dichloroethane	25.0	27.1		ug/L		108	75 - 120	3	20
1,2-Dichloropropane	25.0	28.3		ug/L		113	76 - 120	2	20
2-Butanone	125	250	*	ug/L		200	57 - 140	5	20
2-Hexanone	125	121		ug/L		97	65 - 127	1	15
4-Methyl-2-pentanone	125	118		ug/L		94	71 - 125	1	35
Acetone	125	132		ug/L		105	56 - 142	3	15
Benzene	25.0	27.8		ug/L		111	71 - 124	2	13
Bromodichloromethane	25.0	27.5		ug/L		110	80 - 122	5	15
Bromoform	25.0	24.8		ug/L		99	61 - 132	1	15
Bromomethane	25.0	25.5		ug/L		102	55 - 144	6	15
Carbon disulfide	25.0	25.3		ug/L		101	59 - 134	4	15
Carbon tetrachloride	25.0	28.4		ug/L		114	72 - 134	7	15
Chlorobenzene	25.0	28.3		ug/L		113	80 - 120	0	25
Chloroethane	25.0	23.5		ug/L		94	69 - 136	2	15
Chloroform	25.0	26.0		ug/L		104	73 - 127	3	20
Chloromethane	25.0	24.9		ug/L		99	68 - 124	5	15
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	74 - 124	5	15
cis-1,3-Dichloropropene	25.0	29.7		ug/L		119	74 - 124	1	15
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125	1	15
Ethylbenzene	25.0	27.3		ug/L		109	77 - 123	1	15
Methylene Chloride	25.0	24.5		ug/L		98	75 - 124	2	15
Styrene	25.0	26.9		ug/L		108	80 - 120	0	20
Tetrachloroethene	25.0	33.4	*	ug/L		134	74 - 122	2	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-477169/9
Matrix: Water
Analysis Batch: 477169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	27.2		ug/L		109	80 - 122	2	15
trans-1,2-Dichloroethene			25.0	26.8		ug/L		107	73 - 127	6	20
trans-1,3-Dichloropropene			25.0	27.8		ug/L		111	80 - 120	1	15
Trichloroethene			25.0	29.2		ug/L		117	74 - 123	3	16
Vinyl acetate			50.0	64.3		ug/L		129	50 - 144	0	23
Vinyl chloride			25.0	25.0		ug/L		100	65 - 133	6	15
Xylenes, Total			50.0	54.3		ug/L		109	76 - 122	0	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 02:23	1
2-Butanone	ND	U	10		ug/L			06/19/19 02:23	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 02:23	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 02:23	1
Acetone	ND	U	10		ug/L			06/19/19 02:23	1
Benzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromoform	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroform	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Styrene	ND	U	1.0		ug/L			06/19/19 02:23	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Toluene	ND	U	1.0		ug/L			06/19/19 02:23	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 02:23	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/19/19 02:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/19/19 02:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/19/19 02:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/19/19 02:23*	*1*

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	19.6		ug/L		78	76 - 120
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	20.7		ug/L		83	66 - 127
1,2-Dichloroethane	25.0	23.1		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
2-Butanone	125	154		ug/L		123	57 - 140
2-Hexanone	125	99.7		ug/L		80	65 - 127
4-Methyl-2-pentanone	125	98.6		ug/L		79	71 - 125
Acetone	125	89.1		ug/L		71	56 - 142
Benzene	25.0	23.1		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	22.8		ug/L		91	61 - 132
Bromomethane	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	21.9		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	74 - 124
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl acetate	50.0	48.2		ug/L		96	50 - 144
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133
Xylenes, Total	50.0	47.8		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-472271/1-A
Matrix: Water
Analysis Batch: 474096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472271

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		05/13/19 07:43	05/21/19 11:20	1
Barium	ND	U	0.0050	mg/L		05/13/19 07:43	05/21/19 11:20	1
Calcium	ND	U	0.15	mg/L		05/13/19 07:43	05/21/19 11:20	1
Chromium	ND	U	0.010	mg/L		05/13/19 07:43	05/21/19 11:20	1
Copper	ND	U	0.025	mg/L		05/13/19 07:43	05/21/19 11:20	1
Iron	0.0405		0.030	mg/L		05/13/19 07:43	05/21/19 11:20	1
Lead	ND	U	0.0050	mg/L		05/13/19 07:43	05/21/19 11:20	1
Magnesium	ND	U	0.24	mg/L		05/13/19 07:43	05/21/19 11:20	1
Manganese	ND	U	0.010	mg/L		05/13/19 07:43	05/21/19 11:20	1
Potassium	ND	U	0.20	mg/L		05/13/19 07:43	05/21/19 11:20	1
Sodium	ND	U	0.40	mg/L		05/13/19 07:43	05/21/19 11:20	1
Vanadium	ND	U	0.025	mg/L		05/13/19 07:43	05/21/19 11:20	1
Zinc	ND	U	0.020	mg/L		05/13/19 07:43	05/21/19 11:20	1

Lab Sample ID: LCS 480-472271/2-A
Matrix: Water
Analysis Batch: 474096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.183		mg/L		91	80 - 120
Barium	0.200	0.194		mg/L		97	80 - 120
Calcium	10.0	9.20		mg/L		92	80 - 120
Chromium	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.176		mg/L		88	80 - 120
Iron	10.0	9.28		mg/L		93	80 - 120
Lead	0.200	0.177		mg/L		89	80 - 120
Magnesium	10.0	8.98		mg/L		90	80 - 120
Manganese	0.200	0.181		mg/L		90	80 - 120
Potassium	10.0	8.73		mg/L		87	80 - 120
Sodium	10.0	8.59		mg/L		86	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-472271/2-A
Matrix: Water
Analysis Batch: 474096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.200	0.181		mg/L		91	80 - 120
Zinc	0.200	0.184		mg/L		92	80 - 120

Lab Sample ID: MB 480-473190/1-A
Matrix: Water
Analysis Batch: 474729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473190

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		05/20/19 07:07	05/24/19 22:04	1
Barium	ND	U	0.0050	mg/L		05/20/19 07:07	05/24/19 22:04	1
Calcium	ND	U	0.15	mg/L		05/20/19 07:07	05/24/19 22:04	1
Chromium	ND	U	0.010	mg/L		05/20/19 07:07	05/24/19 22:04	1
Copper	ND	U	0.025	mg/L		05/20/19 07:07	05/24/19 22:04	1
Iron	ND	U	0.030	mg/L		05/20/19 07:07	05/24/19 22:04	1
Lead	ND	U	0.0050	mg/L		05/20/19 07:07	05/24/19 22:04	1
Magnesium	ND	U	0.24	mg/L		05/20/19 07:07	05/24/19 22:04	1
Manganese	ND	U	0.010	mg/L		05/20/19 07:07	05/24/19 22:04	1
Sodium	ND	U	0.40	mg/L		05/20/19 07:07	05/24/19 22:04	1
Vanadium	ND	U	0.025	mg/L		05/20/19 07:07	05/24/19 22:04	1
Zinc	ND	U	0.020	mg/L		05/20/19 07:07	05/24/19 22:04	1

Lab Sample ID: MB 480-473190/1-A
Matrix: Water
Analysis Batch: 474807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473190

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND	U	0.20	mg/L		05/20/19 07:07	05/25/19 15:40	1

Lab Sample ID: LCS 480-473190/2-A
Matrix: Water
Analysis Batch: 474729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.191		mg/L		96	80 - 120
Barium	0.200	0.205		mg/L		103	80 - 120
Calcium	10.0	9.61		mg/L		96	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.188		mg/L		94	80 - 120
Iron	10.0	9.63		mg/L		96	80 - 120
Lead	0.200	0.183		mg/L		92	80 - 120
Magnesium	10.0	9.58		mg/L		96	80 - 120
Manganese	0.200	0.194		mg/L		97	80 - 120
Sodium	10.0	8.57		mg/L		86	80 - 120
Vanadium	0.200	0.195		mg/L		97	80 - 120
Zinc	0.200	0.199		mg/L		99	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-473190/2-A
Matrix: Water
Analysis Batch: 474807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.33		mg/L		93	80 - 120

Lab Sample ID: 480-153454-1 MS
Matrix: Ground Water
Analysis Batch: 474729

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	0.200	0.189		mg/L		94	75 - 125
Barium	0.0085		0.200	0.209		mg/L		100	75 - 125
Calcium	22		10.0	31.2		mg/L		95	75 - 125
Chromium	ND	U	0.200	0.193		mg/L		96	75 - 125
Copper	ND	U	0.200	0.187		mg/L		93	75 - 125
Iron	ND	U	10.0	9.53		mg/L		95	75 - 125
Lead	ND	U	0.200	0.182		mg/L		91	75 - 125
Magnesium	7.4		10.0	16.8		mg/L		94	75 - 125
Manganese	0.060		0.200	0.250		mg/L		95	75 - 125
Sodium	4.6		10.0	13.5		mg/L		88	75 - 125
Vanadium	ND	U	0.200	0.192		mg/L		96	75 - 125
Zinc	ND	U	0.200	0.197		mg/L		96	75 - 125

Lab Sample ID: 480-153454-1 MS
Matrix: Ground Water
Analysis Batch: 474807

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2.2		10.0	11.3		mg/L		91	75 - 125

Lab Sample ID: 480-153454-1 MSD
Matrix: Ground Water
Analysis Batch: 474729

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.190		mg/L		95	75 - 125	0	20
Barium	0.0085		0.200	0.207		mg/L		99	75 - 125	1	20
Calcium	22		10.0	30.6		mg/L		89	75 - 125	2	20
Chromium	ND	U	0.200	0.193		mg/L		96	75 - 125	0	20
Copper	ND	U	0.200	0.185		mg/L		92	75 - 125	1	20
Iron	ND	U	10.0	9.45		mg/L		95	75 - 125	1	20
Lead	ND	U	0.200	0.181		mg/L		91	75 - 125	1	20
Magnesium	7.4		10.0	16.7		mg/L		92	75 - 125	1	20
Manganese	0.060		0.200	0.246		mg/L		93	75 - 125	2	20
Sodium	4.6		10.0	13.2		mg/L		86	75 - 125	2	20
Vanadium	ND	U	0.200	0.191		mg/L		95	75 - 125	1	20
Zinc	ND	U	0.200	0.197		mg/L		96	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-153454-1 MSD
Matrix: Ground Water
Analysis Batch: 474807

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 473190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	2.2		10.0	11.3		mg/L		91	75 - 125	1	20

Lab Sample ID: MB 480-473449/1-A
Matrix: Water
Analysis Batch: 474735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473449

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 21:51	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 21:51	1
Calcium	ND	U	0.15		mg/L		05/20/19 07:22	05/24/19 21:51	1
Chromium	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 21:51	1
Copper	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 21:51	1
Iron	0.0462		0.030		mg/L		05/20/19 07:22	05/24/19 21:51	1
Lead	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 21:51	1
Magnesium	ND	U	0.24		mg/L		05/20/19 07:22	05/24/19 21:51	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 21:51	1
Potassium	ND	U	0.20		mg/L		05/20/19 07:22	05/24/19 21:51	1
Sodium	ND	U	0.40		mg/L		05/20/19 07:22	05/24/19 21:51	1
Vanadium	ND	U	0.025		mg/L		05/20/19 07:22	05/24/19 21:51	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 21:51	1

Lab Sample ID: LCS 480-473449/2-A
Matrix: Water
Analysis Batch: 474735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473449

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.194		mg/L		97	80 - 120		
Barium			0.200	0.208		mg/L		104	80 - 120		
Calcium			10.0	9.57		mg/L		96	80 - 120		
Chromium			0.200	0.199		mg/L		100	80 - 120		
Copper			0.200	0.191		mg/L		96	80 - 120		
Iron			10.0	9.80		mg/L		98	80 - 120		
Lead			0.200	0.187		mg/L		93	80 - 120		
Magnesium			10.0	9.63		mg/L		96	80 - 120		
Manganese			0.200	0.195		mg/L		97	80 - 120		
Potassium			10.0	9.28		mg/L		93	80 - 120		
Sodium			10.0	9.03		mg/L		90	80 - 120		
Vanadium			0.200	0.195		mg/L		98	80 - 120		
Zinc			0.200	0.197		mg/L		99	80 - 120		

Lab Sample ID: 480-153523-1 MS
Matrix: Ground Water
Analysis Batch: 474735

Client Sample ID: 629B
Prep Type: Total/NA
Prep Batch: 473449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.015		0.200	0.215		mg/L		100	75 - 125		
Barium	ND	U	0.200	0.215		mg/L		106	75 - 125		
Calcium	19		10.0	29.5		mg/L		104	75 - 125		
Chromium	ND	U	0.200	0.203		mg/L		101	75 - 125		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-153523-1 MS
Matrix: Ground Water
Analysis Batch: 474735

Client Sample ID: 629B
Prep Type: Total/NA
Prep Batch: 473449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	ND	U	0.200	0.195		mg/L		97	75 - 125
Iron	ND	U	10.0	10.0		mg/L		100	75 - 125
Lead	ND	U	0.200	0.193		mg/L		97	75 - 125
Magnesium	3.5		10.0	13.4		mg/L		99	75 - 125
Manganese	0.011		0.200	0.211		mg/L		100	75 - 125
Potassium	2.0		10.0	11.8		mg/L		98	75 - 125
Sodium	5.7		10.0	15.3		mg/L		96	75 - 125
Vanadium	ND	U	0.200	0.202		mg/L		101	75 - 125
Zinc	ND	U	0.200	0.203		mg/L		101	75 - 125

Lab Sample ID: 480-153523-1 MSD
Matrix: Ground Water
Analysis Batch: 474735

Client Sample ID: 629B
Prep Type: Total/NA
Prep Batch: 473449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.015		0.200	0.208		mg/L		96	75 - 125	4	20
Barium	ND	U	0.200	0.210		mg/L		104	75 - 125	2	20
Calcium	19		10.0	28.6		mg/L		95	75 - 125	3	20
Chromium	ND	U	0.200	0.195		mg/L		98	75 - 125	4	20
Copper	ND	U	0.200	0.186		mg/L		93	75 - 125	4	20
Iron	ND	U	10.0	9.56		mg/L		96	75 - 125	5	20
Lead	ND	U	0.200	0.185		mg/L		93	75 - 125	4	20
Magnesium	3.5		10.0	12.9		mg/L		94	75 - 125	4	20
Manganese	0.011		0.200	0.202		mg/L		95	75 - 125	4	20
Potassium	2.0		10.0	11.5		mg/L		94	75 - 125	3	20
Sodium	5.7		10.0	14.9		mg/L		92	75 - 125	3	20
Vanadium	ND	U	0.200	0.194		mg/L		97	75 - 125	4	20
Zinc	ND	U	0.200	0.194		mg/L		97	75 - 125	4	20

Lab Sample ID: MB 480-473773/1-A
Matrix: Water
Analysis Batch: 476247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473773

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/22/19 07:57	06/04/19 11:32	1
Barium	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 11:32	1
Calcium	ND	U	0.15		mg/L		05/22/19 07:57	06/04/19 11:32	1
Chromium	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 11:32	1
Copper	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 11:32	1
Iron	ND	U	0.030		mg/L		05/22/19 07:57	06/04/19 11:32	1
Lead	ND	U	0.0050		mg/L		05/22/19 07:57	06/04/19 11:32	1
Magnesium	ND	U	0.24		mg/L		05/22/19 07:57	06/04/19 11:32	1
Manganese	ND	U	0.010		mg/L		05/22/19 07:57	06/04/19 11:32	1
Potassium	ND	U	0.20		mg/L		05/22/19 07:57	06/04/19 11:32	1
Sodium	ND	U	0.40		mg/L		05/22/19 07:57	06/04/19 11:32	1
Vanadium	ND	U	0.025		mg/L		05/22/19 07:57	06/04/19 11:32	1
Zinc	ND	U	0.020		mg/L		05/22/19 07:57	06/04/19 11:32	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-473773/2-A
Matrix: Water
Analysis Batch: 476247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.220		mg/L		110	80 - 120
Barium	0.200	0.228		mg/L		114	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Chromium	0.200	0.211		mg/L		105	80 - 120
Copper	0.200	0.210		mg/L		105	80 - 120
Iron	10.0	10.5		mg/L		105	80 - 120
Lead	0.200	0.204		mg/L		102	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Potassium	10.0	9.89		mg/L		99	80 - 120
Sodium	10.0	9.83		mg/L		98	80 - 120
Vanadium	0.200	0.211		mg/L		105	80 - 120
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: MB 480-474013/1-A
Matrix: Water
Analysis Batch: 475535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474013

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		05/22/19 07:53	05/30/19 13:52	1
Barium	ND	U	0.0050	mg/L		05/22/19 07:53	05/30/19 13:52	1
Calcium	ND	U	0.15	mg/L		05/22/19 07:53	05/30/19 13:52	1
Chromium	ND	U	0.010	mg/L		05/22/19 07:53	05/30/19 13:52	1
Copper	ND	U	0.025	mg/L		05/22/19 07:53	05/30/19 13:52	1
Iron	ND	U	0.030	mg/L		05/22/19 07:53	05/30/19 13:52	1
Lead	ND	U	0.0050	mg/L		05/22/19 07:53	05/30/19 13:52	1
Magnesium	ND	U	0.24	mg/L		05/22/19 07:53	05/30/19 13:52	1
Manganese	ND	U	0.010	mg/L		05/22/19 07:53	05/30/19 13:52	1
Potassium	ND	U	0.20	mg/L		05/22/19 07:53	05/30/19 13:52	1
Sodium	ND	U	0.40	mg/L		05/22/19 07:53	05/30/19 13:52	1
Vanadium	ND	U	0.025	mg/L		05/22/19 07:53	05/30/19 13:52	1
Zinc	ND	U	0.020	mg/L		05/22/19 07:53	05/30/19 13:52	1

Lab Sample ID: LCS 480-474013/2-A
Matrix: Water
Analysis Batch: 475535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.193		mg/L		96	80 - 120
Barium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	9.50		mg/L		95	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Copper	0.200	0.188		mg/L		94	80 - 120
Iron	10.0	9.55		mg/L		96	80 - 120
Lead	0.200	0.184		mg/L		92	80 - 120
Magnesium	10.0	9.56		mg/L		96	80 - 120
Manganese	0.200	0.189		mg/L		94	80 - 120
Potassium	10.0	9.56		mg/L		96	80 - 120
Sodium	10.0	9.45		mg/L		94	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-474013/2-A
Matrix: Water
Analysis Batch: 475535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.200	0.189		mg/L		95	80 - 120
Zinc	0.200	0.188		mg/L		94	80 - 120

Lab Sample ID: 480-153786-1 MS
Matrix: Ground Water
Analysis Batch: 475535

Client Sample ID: 106CR
Prep Type: Total/NA
Prep Batch: 474013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	0.200	0.218		mg/L		105	75 - 125
Barium	0.018		0.200	0.230		mg/L		106	75 - 125
Calcium	79		10.0	86.4		mg/L		77	75 - 125
Chromium	ND	U	0.200	0.204		mg/L		102	75 - 125
Copper	ND	U	0.200	0.202		mg/L		101	75 - 125
Iron	0.36		10.0	10.3		mg/L		99	75 - 125
Lead	ND	U	0.200	0.198		mg/L		99	75 - 125
Magnesium	12		10.0	21.4		mg/L		98	75 - 125
Manganese	0.20		0.200	0.386		mg/L		95	75 - 125
Potassium	7.7		10.0	17.5		mg/L		99	75 - 125
Sodium	7.6		10.0	17.0		mg/L		94	75 - 125
Vanadium	ND	U	0.200	0.204		mg/L		102	75 - 125
Zinc	ND	U	0.200	0.198		mg/L		99	75 - 125

Lab Sample ID: 480-153786-1 MSD
Matrix: Ground Water
Analysis Batch: 475535

Client Sample ID: 106CR
Prep Type: Total/NA
Prep Batch: 474013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.210		mg/L		101	75 - 125	4	20
Barium	0.018		0.200	0.222		mg/L		102	75 - 125	3	20
Calcium	79		10.0	84.7		mg/L		60	75 - 125	2	20
Chromium	ND	U	0.200	0.197		mg/L		98	75 - 125	4	20
Copper	ND	U	0.200	0.193		mg/L		96	75 - 125	5	20
Iron	0.36		10.0	9.98		mg/L		96	75 - 125	3	20
Lead	ND	U	0.200	0.191		mg/L		96	75 - 125	3	20
Magnesium	12		10.0	20.7		mg/L		91	75 - 125	3	20
Manganese	0.20		0.200	0.374		mg/L		89	75 - 125	3	20
Potassium	7.7		10.0	17.1		mg/L		94	75 - 125	3	20
Sodium	7.6		10.0	16.7		mg/L		90	75 - 125	2	20
Vanadium	ND	U	0.200	0.195		mg/L		97	75 - 125	5	20
Zinc	ND	U	0.200	0.189		mg/L		95	75 - 125	5	20

Lab Sample ID: MB 480-474385/1-A
Matrix: Water
Analysis Batch: 475089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474385

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/24/19 07:41	05/29/19 04:01	1
Barium	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 04:01	1
Calcium	ND	U	0.15		mg/L		05/24/19 07:41	05/29/19 04:01	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-474385/1-A
Matrix: Water
Analysis Batch: 475089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474385

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 04:01	1
Copper	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 04:01	1
Iron	ND	U	0.030		mg/L		05/24/19 07:41	05/29/19 04:01	1
Lead	ND	U	0.0050		mg/L		05/24/19 07:41	05/29/19 04:01	1
Magnesium	ND	U	0.24		mg/L		05/24/19 07:41	05/29/19 04:01	1
Manganese	ND	U	0.010		mg/L		05/24/19 07:41	05/29/19 04:01	1
Potassium	ND	U	0.20		mg/L		05/24/19 07:41	05/29/19 04:01	1
Sodium	ND	U	0.40		mg/L		05/24/19 07:41	05/29/19 04:01	1
Vanadium	ND	U	0.025		mg/L		05/24/19 07:41	05/29/19 04:01	1
Zinc	ND	U	0.020		mg/L		05/24/19 07:41	05/29/19 04:01	1

Lab Sample ID: LCS 480-474385/2-A
Matrix: Water
Analysis Batch: 475089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.211		mg/L		105	80 - 120
Barium	0.200	0.225		mg/L		112	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.4		mg/L		104	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120
Potassium	10.0	10.0		mg/L		100	80 - 120
Sodium	10.0	9.71		mg/L		97	80 - 120
Vanadium	0.200	0.205		mg/L		102	80 - 120
Zinc	0.200	0.203		mg/L		101	80 - 120

Lab Sample ID: MB 480-474595/1-A
Matrix: Water
Analysis Batch: 475096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		05/28/19 07:36	05/28/19 18:22	1
Barium	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 18:22	1
Calcium	ND	U	0.15		mg/L		05/28/19 07:36	05/28/19 18:22	1
Chromium	ND	U	0.010		mg/L		05/28/19 07:36	05/28/19 18:22	1
Copper	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 18:22	1
Iron	ND	U	0.030		mg/L		05/28/19 07:36	05/28/19 18:22	1
Lead	ND	U	0.0050		mg/L		05/28/19 07:36	05/28/19 18:22	1
Magnesium	ND	U	0.24		mg/L		05/28/19 07:36	05/28/19 18:22	1
Manganese	ND	U	0.010		mg/L		05/28/19 07:36	05/28/19 18:22	1
Potassium	ND	U	0.20		mg/L		05/28/19 07:36	05/28/19 18:22	1
Sodium	ND	U	0.40		mg/L		05/28/19 07:36	05/28/19 18:22	1
Vanadium	ND	U	0.025		mg/L		05/28/19 07:36	05/28/19 18:22	1
Zinc	ND	U	0.020		mg/L		05/28/19 07:36	05/28/19 18:22	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-474595/2-A
Matrix: Water
Analysis Batch: 475096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.211		mg/L		106	80 - 120
Barium	0.200	0.209		mg/L		105	80 - 120
Calcium	10.0	9.68		mg/L		97	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Copper	0.200	0.201		mg/L		100	80 - 120
Iron	10.0	9.99		mg/L		100	80 - 120
Lead	0.200	0.189		mg/L		95	80 - 120
Magnesium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.200	0.199		mg/L		100	80 - 120
Potassium	10.0	9.64		mg/L		96	80 - 120
Sodium	10.0	9.53		mg/L		95	80 - 120
Vanadium	0.200	0.202		mg/L		101	80 - 120
Zinc	0.200	0.195		mg/L		98	80 - 120

Lab Sample ID: MB 480-476458/1-A
Matrix: Water
Analysis Batch: 477951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476458

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		06/06/19 09:58	06/14/19 16:25	1
Barium	ND	U	0.0050	mg/L		06/06/19 09:58	06/14/19 16:25	1
Calcium	ND	U	0.15	mg/L		06/06/19 09:58	06/14/19 16:25	1
Chromium	ND	U	0.010	mg/L		06/06/19 09:58	06/14/19 16:25	1
Copper	ND	U	0.025	mg/L		06/06/19 09:58	06/14/19 16:25	1
Iron	ND	U	0.030	mg/L		06/06/19 09:58	06/14/19 16:25	1
Lead	ND	U	0.0050	mg/L		06/06/19 09:58	06/14/19 16:25	1
Magnesium	ND	U	0.24	mg/L		06/06/19 09:58	06/14/19 16:25	1
Manganese	ND	U	0.010	mg/L		06/06/19 09:58	06/14/19 16:25	1
Potassium	ND	U	0.20	mg/L		06/06/19 09:58	06/14/19 16:25	1
Sodium	ND	U	0.40	mg/L		06/06/19 09:58	06/14/19 16:25	1
Vanadium	ND	U	0.025	mg/L		06/06/19 09:58	06/14/19 16:25	1
Zinc	ND	U	0.020	mg/L		06/06/19 09:58	06/14/19 16:25	1

Lab Sample ID: LCS 480-476458/2-A
Matrix: Water
Analysis Batch: 477951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.210		mg/L		105	80 - 120
Barium	0.200	0.208		mg/L		104	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Copper	0.200	0.191		mg/L		96	80 - 120
Iron	10.0	9.80		mg/L		98	80 - 120
Lead	0.200	0.205		mg/L		103	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Potassium	10.0	9.95		mg/L		99	80 - 120
Sodium	10.0	9.84		mg/L		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-476458/2-A
Matrix: Water
Analysis Batch: 477951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: MB 480-476716/1-A
Matrix: Water
Analysis Batch: 477952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476716

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/10/19 13:02	06/14/19 18:35	1
Barium	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 18:35	1
Calcium	ND	U	0.15		mg/L		06/10/19 13:02	06/14/19 18:35	1
Chromium	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 18:35	1
Copper	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 18:35	1
Lead	ND	U	0.0050		mg/L		06/10/19 13:02	06/14/19 18:35	1
Magnesium	ND	U	0.24		mg/L		06/10/19 13:02	06/14/19 18:35	1
Manganese	ND	U	0.010		mg/L		06/10/19 13:02	06/14/19 18:35	1
Potassium	ND	U	0.20		mg/L		06/10/19 13:02	06/14/19 18:35	1
Sodium	ND	U	0.40		mg/L		06/10/19 13:02	06/14/19 18:35	1
Vanadium	ND	U	0.025		mg/L		06/10/19 13:02	06/14/19 18:35	1
Zinc	ND	U	0.020		mg/L		06/10/19 13:02	06/14/19 18:35	1

Lab Sample ID: MB 480-476716/1-A
Matrix: Water
Analysis Batch: 478108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476716

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030		mg/L		06/10/19 13:02	06/15/19 16:14	1

Lab Sample ID: LCS 480-476716/2-A
Matrix: Water
Analysis Batch: 477952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.400	0.435		mg/L		109	80 - 120
Barium	0.400	0.430		mg/L		107	80 - 120
Calcium	20.0	20.6		mg/L		103	80 - 120
Chromium	0.400	0.424		mg/L		106	80 - 120
Copper	0.400	0.399		mg/L		100	80 - 120
Lead	0.400	0.423		mg/L		106	80 - 120
Magnesium	20.0	20.9		mg/L		105	80 - 120
Manganese	0.400	0.415		mg/L		104	80 - 120
Potassium	20.0	20.5		mg/L		102	80 - 120
Sodium	20.0	20.4		mg/L		102	80 - 120
Vanadium	0.400	0.416		mg/L		104	80 - 120
Zinc	0.400	0.420		mg/L		105	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-476716/2-A
Matrix: Water
Analysis Batch: 478108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	20.0	21.1		mg/L		106	80 - 120

Lab Sample ID: MB 480-477118/1-A
Matrix: Water
Analysis Batch: 477397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477118

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/11/19 07:40	06/11/19 15:54	1
Barium	ND	U	0.0050		mg/L		06/11/19 07:40	06/11/19 15:54	1
Calcium	ND	U	0.15		mg/L		06/11/19 07:40	06/11/19 15:54	1
Chromium	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 15:54	1
Copper	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 15:54	1
Iron	ND	U	0.030		mg/L		06/11/19 07:40	06/11/19 15:54	1
Lead	ND	U	0.0050		mg/L		06/11/19 07:40	06/11/19 15:54	1
Magnesium	ND	U	0.24		mg/L		06/11/19 07:40	06/11/19 15:54	1
Manganese	ND	U	0.010		mg/L		06/11/19 07:40	06/11/19 15:54	1
Potassium	ND	U	0.20		mg/L		06/11/19 07:40	06/11/19 15:54	1
Sodium	ND	U	0.40		mg/L		06/11/19 07:40	06/11/19 15:54	1
Vanadium	ND	U	0.025		mg/L		06/11/19 07:40	06/11/19 15:54	1
Zinc	ND	U	0.020		mg/L		06/11/19 07:40	06/11/19 15:54	1

Lab Sample ID: LCS 480-477118/2-A
Matrix: Water
Analysis Batch: 477397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.204		mg/L		102	80 - 120
Calcium	10.0	9.95		mg/L		100	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.192		mg/L		96	80 - 120
Iron	10.0	9.95		mg/L		99	80 - 120
Lead	0.200	0.195		mg/L		98	80 - 120
Magnesium	10.0	9.80		mg/L		98	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Potassium	10.0	9.62		mg/L		96	80 - 120
Sodium	10.0	9.45		mg/L		94	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.202		mg/L		101	80 - 120

Lab Sample ID: MB 480-477332/1-A
Matrix: Water
Analysis Batch: 478452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477332

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/12/19 09:24	06/18/19 16:16	1
Barium	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:16	1
Calcium	ND	U	0.15		mg/L		06/12/19 09:24	06/18/19 16:16	1
Chromium	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:16	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-477332/1-A
Matrix: Water
Analysis Batch: 478452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477332

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:16	1
Iron	ND	U	0.030		mg/L		06/12/19 09:24	06/18/19 16:16	1
Lead	ND	U	0.0050		mg/L		06/12/19 09:24	06/18/19 16:16	1
Magnesium	ND	U	0.24		mg/L		06/12/19 09:24	06/18/19 16:16	1
Manganese	ND	U	0.010		mg/L		06/12/19 09:24	06/18/19 16:16	1
Potassium	ND	U	0.20		mg/L		06/12/19 09:24	06/18/19 16:16	1
Sodium	ND	U	0.40		mg/L		06/12/19 09:24	06/18/19 16:16	1
Vanadium	ND	U	0.025		mg/L		06/12/19 09:24	06/18/19 16:16	1
Zinc	ND	U	0.020		mg/L		06/12/19 09:24	06/18/19 16:16	1

Lab Sample ID: LCS 480-477332/2-A
Matrix: Water
Analysis Batch: 478452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477332

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.200		mg/L		100	80 - 120		
Barium			0.200	0.205		mg/L		102	80 - 120		
Calcium			10.0	10.1		mg/L		101	80 - 120		
Chromium			0.200	0.203		mg/L		101	80 - 120		
Copper			0.200	0.193		mg/L		97	80 - 120		
Iron			10.0	10.0		mg/L		100	80 - 120		
Lead			0.200	0.196		mg/L		98	80 - 120		
Magnesium			10.0	9.83		mg/L		98	80 - 120		
Manganese			0.200	0.199		mg/L		100	80 - 120		
Potassium			10.0	9.78		mg/L		98	80 - 120		
Sodium			10.0	9.51		mg/L		95	80 - 120		
Vanadium			0.200	0.200		mg/L		100	80 - 120		
Zinc			0.200	0.200		mg/L		100	80 - 120		

Lab Sample ID: MB 480-477893/1-A
Matrix: Water
Analysis Batch: 478451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/17/19 07:06	06/18/19 14:11	1
Barium	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 14:11	1
Calcium	ND	U	0.15		mg/L		06/17/19 07:06	06/18/19 14:11	1
Chromium	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 14:11	1
Iron	ND	U	0.030		mg/L		06/17/19 07:06	06/18/19 14:11	1
Magnesium	ND	U	0.24		mg/L		06/17/19 07:06	06/18/19 14:11	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 14:11	1
Potassium	ND	U	0.20		mg/L		06/17/19 07:06	06/18/19 14:11	1
Sodium	ND	U	0.40		mg/L		06/17/19 07:06	06/18/19 14:11	1
Vanadium	ND	U	0.025		mg/L		06/17/19 07:06	06/18/19 14:11	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-477893/1-A
Matrix: Water
Analysis Batch: 479154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		06/17/19 07:06	06/21/19 16:13	1
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/21/19 16:13	1
Zinc	ND	U	0.020		mg/L		06/17/19 07:06	06/21/19 16:13	1

Lab Sample ID: LCS 480-477893/2-A
Matrix: Water
Analysis Batch: 478451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.200		mg/L		100	80 - 120
Barium	0.200	0.201		mg/L		100	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Iron	10.0	9.89		mg/L		99	80 - 120
Magnesium	10.0	9.73		mg/L		97	80 - 120
Manganese	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	9.55		mg/L		95	80 - 120
Sodium	10.0	9.43		mg/L		94	80 - 120
Vanadium	0.200	0.196		mg/L		98	80 - 120

Lab Sample ID: LCS 480-477893/2-A
Matrix: Water
Analysis Batch: 479154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.200	0.176		mg/L		88	80 - 120
Lead	0.200	0.190		mg/L		95	80 - 120
Zinc	0.200	0.193		mg/L		96	80 - 120

Lab Sample ID: MB 480-478126/1-A
Matrix: Water
Analysis Batch: 478540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478126

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 19:12	1
Barium	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 19:12	1
Calcium	ND	U	0.15		mg/L		06/18/19 07:04	06/18/19 19:12	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 19:12	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 19:12	1
Iron	0.0476		0.030		mg/L		06/18/19 07:04	06/18/19 19:12	1
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 19:12	1
Magnesium	ND	U	0.24		mg/L		06/18/19 07:04	06/18/19 19:12	1
Manganese	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 19:12	1
Potassium	ND	U	0.20		mg/L		06/18/19 07:04	06/18/19 19:12	1
Sodium	ND	U	0.40		mg/L		06/18/19 07:04	06/18/19 19:12	1
Vanadium	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 19:12	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 19:12	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-478126/2-A
Matrix: Water
Analysis Batch: 478540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	9.55		mg/L		96	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.195		mg/L		97	80 - 120
Iron	10.0	9.89		mg/L		99	80 - 120
Lead	0.200	0.187		mg/L		94	80 - 120
Magnesium	10.0	9.55		mg/L		95	80 - 120
Manganese	0.200	0.195		mg/L		97	80 - 120
Potassium	10.0	9.39		mg/L		94	80 - 120
Sodium	10.0	9.41		mg/L		94	80 - 120
Vanadium	0.200	0.195		mg/L		97	80 - 120
Zinc	0.200	0.192		mg/L		96	80 - 120

Lab Sample ID: MB 480-479062/1-A
Matrix: Water
Analysis Batch: 479417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030	mg/L		06/24/19 08:30	06/24/19 14:12	1

Lab Sample ID: LCS 480-479062/2-A
Matrix: Water
Analysis Batch: 479417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.0		mg/L		100	80 - 120

Lab Sample ID: MB 480-479265/1-A
Matrix: Water
Analysis Batch: 479672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479265

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030	mg/L		06/25/19 07:40	06/25/19 20:40	1

Lab Sample ID: LCS 480-479265/2-A
Matrix: Water
Analysis Batch: 479672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.88		mg/L		99	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-570866/1-A
Matrix: Water
Analysis Batch: 571177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570866

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		05/17/19 14:19	05/20/19 15:58	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 680-570866/2-A
Matrix: Water
Analysis Batch: 571177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.42		mg/L		108	80 - 120

Lab Sample ID: MB 680-572168/1-A
Matrix: Water
Analysis Batch: 572470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572168

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		05/29/19 10:34	05/30/19 13:17	1

Lab Sample ID: LCS 680-572168/2-A
Matrix: Water
Analysis Batch: 572470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	4.67		mg/L		93	80 - 120

Lab Sample ID: MB 680-572483/1-A
Matrix: Water
Analysis Batch: 572905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572483

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		05/31/19 11:17	06/03/19 15:08	1

Lab Sample ID: LCS 680-572483/2-A
Matrix: Water
Analysis Batch: 572905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.13		mg/L		103	80 - 120

Lab Sample ID: MB 680-572518/1-A
Matrix: Water
Analysis Batch: 572905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572518

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		05/31/19 12:50	06/03/19 12:58	1

Lab Sample ID: LCS 680-572518/2-A
Matrix: Water
Analysis Batch: 572905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.32		mg/L		106	80 - 120

Lab Sample ID: MB 680-572722/1-A
Matrix: Water
Analysis Batch: 572945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		06/02/19 12:12	06/04/19 09:48	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 680-572722/2-A
Matrix: Water
Analysis Batch: 572945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572722

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	4.80		mg/L		96	80 - 120		

Lab Sample ID: MB 680-572782/1-A
Matrix: Water
Analysis Batch: 573404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572782

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/03/19 11:30	06/06/19 22:20	1

Lab Sample ID: LCS 680-572782/2-A
Matrix: Water
Analysis Batch: 573404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572782

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.20		mg/L		104	80 - 120		

Lab Sample ID: MB 680-573803/1-A
Matrix: Water
Analysis Batch: 574497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573803

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/11/19 12:51	06/16/19 16:25	1

Lab Sample ID: LCS 680-573803/2-A
Matrix: Water
Analysis Batch: 574497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.19		mg/L		104	80 - 120		

Lab Sample ID: MB 680-574144/1-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574144

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 11:50	06/20/19 04:25	1

Lab Sample ID: LCS 680-574144/2-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574144

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.18		mg/L		104	80 - 120		

Lab Sample ID: 480-154543-3 MS
Matrix: Ground Water
Analysis Batch: 575051

Client Sample ID: 628A
Prep Type: Total/NA
Prep Batch: 574144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	ND	U	5.00	5.22		mg/L		104	75 - 125		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 480-154543-3 MSD
Matrix: Ground Water
Analysis Batch: 575051

Client Sample ID: 628A
Prep Type: Total/NA
Prep Batch: 574144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.11		mg/L		102	75 - 125	2	20

Lab Sample ID: MB 680-574205/1-A
Matrix: Water
Analysis Batch: 575407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/13/19 16:30	06/23/19 13:18	1

Lab Sample ID: MB 680-574886/1-A
Matrix: Water
Analysis Batch: 575573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574886

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/19/19 12:52	06/24/19 17:13	1

Lab Sample ID: LCS 680-574886/2-A
Matrix: Water
Analysis Batch: 575573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574886

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.06		mg/L		101	80 - 120		

Lab Sample ID: MB 680-575770/1-A
Matrix: Water
Analysis Batch: 575980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575770

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		06/26/19 10:05	06/26/19 17:32	1

Lab Sample ID: LCS 680-575770/2-A
Matrix: Water
Analysis Batch: 575980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575770

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.14		mg/L		103	80 - 120		

Lab Sample ID: MB 680-576996/1-A
Matrix: Water
Analysis Batch: 577388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576996

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		07/07/19 11:22	07/09/19 19:56	1

Lab Sample ID: LCS 680-576996/2-A
Matrix: Water
Analysis Batch: 577388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576996

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.27		mg/L		105	80 - 120		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-473606/12
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/19/19 13:17	1

Lab Sample ID: MB 480-473606/23
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/19/19 13:21	1

Lab Sample ID: LCS 480-473606/13
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.2		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-473606/24
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.1		mg/L		106	90 - 110		

Lab Sample ID: MB 480-474333/105
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 18:07	1

Lab Sample ID: MB 480-474333/149
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 19:39	1

Lab Sample ID: MB 480-474333/157
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 19:41	1

Lab Sample ID: MB 480-474333/44
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 15:25	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-474333/64
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 16:17	1

Lab Sample ID: MB 480-474333/84
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/22/19 17:01	1

Lab Sample ID: LCS 480-474333/106
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	54.6		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-474333/150
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.0		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-474333/158
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-474333/45
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.2		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-474333/65
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.8		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-474333/85
Matrix: Water
Analysis Batch: 474333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.8		mg/L		106	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: 480-153454-1 MS
Matrix: Ground Water
Analysis Batch: 474333

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	93		40.0	104	*	mg/L		29	60 - 140

Lab Sample ID: 480-153454-1 MSD
Matrix: Ground Water
Analysis Batch: 474333

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	93		40.0	102	*	mg/L		24	60 - 140	2	20

Lab Sample ID: MB 480-475273/158
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 17:05	1

Lab Sample ID: MB 480-475273/173
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 17:40	1

Lab Sample ID: MB 480-475273/46
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 11:11	1

Lab Sample ID: MB 480-475273/71
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 12:27	1

Lab Sample ID: LCS 480-475273/159
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCS 480-475273/174
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	50.3		mg/L		101	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-475273/47
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: LCS 480-475273/72
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 480-153899-1 MS
Matrix: Ground Water
Analysis Batch: 475273

Client Sample ID: 629E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100		20.0	118		mg/L		92	60 - 140

Lab Sample ID: MB 480-475409/12
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			05/30/19 11:08	1

Lab Sample ID: MB 480-475409/35
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			05/30/19 11:34	1

Lab Sample ID: MB 480-475409/44
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			05/30/19 11:35	1

Lab Sample ID: MB 480-475409/79
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			05/30/19 12:14	1

Lab Sample ID: LCS 480-475409/13
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.3		mg/L		105	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-475409/36
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.3		mg/L		107	90 - 110

Lab Sample ID: LCS 480-475409/45
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.8		mg/L		106	90 - 110

Lab Sample ID: LCS 480-475409/80
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.5		mg/L		107	90 - 110

Lab Sample ID: MB 480-475783/100
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/02/19 18:21	1

Lab Sample ID: MB 480-475783/20
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/02/19 16:26	1

Lab Sample ID: MB 480-475783/29
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/02/19 16:30	1

Lab Sample ID: MB 480-475783/41
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/02/19 16:43	1

Lab Sample ID: MB 480-475783/50
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/02/19 16:53	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-475783/76
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/02/19 17:40	1

Lab Sample ID: LCS 480-475783/101
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.3		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-475783/21
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.0		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-475783/30
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.6		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-475783/42
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.0		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-475783/51
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.5		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-475783/77
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.1		mg/L		98	90 - 110		

Lab Sample ID: 480-153888-4 MS
Matrix: Ground Water
Analysis Batch: 475783

Client Sample ID: DUP-GW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	120		20.0	140		mg/L		79	60 - 140		

Method: 310.2 - Alkalinity

Lab Sample ID: 480-153888-6 DU
Matrix: Ground Water
Analysis Batch: 475783

Client Sample ID: W11-1ER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	130		129		mg/L		1	20

Lab Sample ID: MB 480-476179/22
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 11:58	1

Lab Sample ID: MB 480-476179/28
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 12:28	1

Lab Sample ID: MB 480-476179/3
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 11:49	1

Lab Sample ID: MB 480-476179/48
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 12:42	1

Lab Sample ID: LCS 480-476179/23
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.2		mg/L		104	90 - 110

Lab Sample ID: LCS 480-476179/29
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.7		mg/L		103	90 - 110

Lab Sample ID: LCS 480-476179/4
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.8		mg/L		102	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-476179/49
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.9		mg/L		100	90 - 110		

Lab Sample ID: MB 480-476957/19
Matrix: Water
Analysis Batch: 476957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/09/19 15:40	1

Lab Sample ID: MB 480-476957/29
Matrix: Water
Analysis Batch: 476957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/09/19 16:45	1

Lab Sample ID: LCS 480-476957/20
Matrix: Water
Analysis Batch: 476957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.8		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-476957/30
Matrix: Water
Analysis Batch: 476957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.4		mg/L		107	90 - 110		

Lab Sample ID: 480-153888-1 MS
Matrix: Ground Water
Analysis Batch: 476957

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	63		20.0	80.8		mg/L		91	60 - 140		

Lab Sample ID: 480-153929-6 DU
Matrix: Ground Water
Analysis Batch: 476957

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	85			88.3		mg/L				3	20

Lab Sample ID: MB 480-478736/130
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 18:15	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-478736/139
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 18:17	1

Lab Sample ID: MB 480-478736/151
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 19:12	1

Lab Sample ID: MB 480-478736/190
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 19:54	1

Lab Sample ID: MB 480-478736/97
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/19/19 18:06	1

Lab Sample ID: LCS 480-478736/131
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.9		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-478736/140
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.2		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-478736/152
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.3		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-478736/191
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.3		mg/L		101	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-478736/98
Matrix: Water
Analysis Batch: 478736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.0		mg/L		102	90 - 110		

Lab Sample ID: 480-154465-2 MS
Matrix: Water
Analysis Batch: 478736

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	ND	U	20.0	22.8		mg/L		81	60 - 140		

Lab Sample ID: 480-154465-2 MSD
Matrix: Water
Analysis Batch: 478736

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	ND	U	20.0	24.8		mg/L		90	60 - 140	8	20

Lab Sample ID: 480-154465-3 MS
Matrix: Water
Analysis Batch: 478736

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	75		20.0	91.8		mg/L		86	60 - 140		

Lab Sample ID: 480-154465-3 MSD
Matrix: Water
Analysis Batch: 478736

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	75		20.0	91.4		mg/L		84	60 - 140	0	20

Lab Sample ID: MB 480-479096/127
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/21/19 13:39	1

Lab Sample ID: MB 480-479096/162
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/21/19 14:45	1

Lab Sample ID: MB 480-479096/196
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/21/19 16:51	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-479096/84
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/21/19 13:12	1

Lab Sample ID: LCS 480-479096/128
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.9		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-479096/163
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.6		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-479096/197
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.0		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-479096/85
Matrix: Water
Analysis Batch: 479096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.0		mg/L		104	90 - 110		

Lab Sample ID: MB 480-479576/12
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 12:02	1

Lab Sample ID: MB 480-479576/29
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 12:48	1

Lab Sample ID: MB 480-479576/67
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 15:10	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-479576/13
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.2		mg/L		108	90 - 110

Lab Sample ID: LCS 480-479576/30
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.1		mg/L		104	90 - 110

Lab Sample ID: LCS 480-479576/68
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: MB 480-480112/121
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/27/19 19:45	1

Lab Sample ID: MB 480-480112/81
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/27/19 17:26	1

Lab Sample ID: MB 480-480112/94
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/27/19 17:56	1

Lab Sample ID: LCS 480-480112/122
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: LCS 480-480112/82
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	46.8		mg/L		94	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-480112/95
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	47.1		mg/L		94	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-474408/27
Matrix: Water
Analysis Batch: 474408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			05/23/19 10:40	1

Lab Sample ID: MB 480-474408/3
Matrix: Water
Analysis Batch: 474408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			05/23/19 10:20	1

Lab Sample ID: LCS 480-474408/28
Matrix: Water
Analysis Batch: 474408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-474408/4
Matrix: Water
Analysis Batch: 474408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: MB 480-475406/147
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			05/30/19 14:48	1

Lab Sample ID: MB 480-475406/3
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			05/30/19 12:45	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-475406/75
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			05/30/19 13:47	1

Lab Sample ID: LCS 480-475406/148
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.988		mg/L as N		99	90 - 110		

Lab Sample ID: LCS 480-475406/4
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.997		mg/L as N		100	90 - 110		

Lab Sample ID: LCS 480-475406/76
Matrix: Water
Analysis Batch: 475406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.987		mg/L as N		99	90 - 110		

Lab Sample ID: 480-153454-5 MS
Matrix: Ground Water
Analysis Batch: 475406

Client Sample ID: 617C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.11		0.200	0.307		mg/L as N		101	90 - 110		

Lab Sample ID: 480-153454-5 DU
Matrix: Ground Water
Analysis Batch: 475406

Client Sample ID: 617C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	0.11			0.104		mg/L as N				2	20

Lab Sample ID: MB 480-475876/147
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 12:37	1

Lab Sample ID: MB 480-475876/3
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 10:34	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-475876/51
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 11:15	1

Lab Sample ID: LCS 480-475876/148
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.00		mg/L as N		100	90 - 110		

Lab Sample ID: LCS 480-475876/4
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-475876/52
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: MB 480-476103/3
Matrix: Water
Analysis Batch: 476103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/04/19 10:35	1

Lab Sample ID: MB 480-476103/75
Matrix: Water
Analysis Batch: 476103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/04/19 11:37	1

Lab Sample ID: LCS 480-476103/4
Matrix: Water
Analysis Batch: 476103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: LCS 480-476103/76
Matrix: Water
Analysis Batch: 476103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-476116/3
Matrix: Water
Analysis Batch: 476116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/04/19 13:23	1

Lab Sample ID: LCS 480-476116/4
Matrix: Water
Analysis Batch: 476116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: MB 480-477001/27
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:49	1

Lab Sample ID: MB 480-477001/3
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 09:28	1

Lab Sample ID: MB 480-477001/51
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 10:09	1

Lab Sample ID: LCS 480-477001/28
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.999		mg/L as N		100	90 - 110		

Lab Sample ID: LCS 480-477001/4
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-477001/52
Matrix: Water
Analysis Batch: 477001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.996		mg/L as N		100	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-153786-5 MS
Matrix: Ground Water
Analysis Batch: 477001

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.191		mg/L as N		96	90 - 110

Lab Sample ID: MB 480-477015/27
Matrix: Water
Analysis Batch: 477015

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 11:44	1

Lab Sample ID: MB 480-477015/3
Matrix: Water
Analysis Batch: 477015

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/10/19 11:23	1

Lab Sample ID: LCS 480-477015/28
Matrix: Water
Analysis Batch: 477015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.00		mg/L as N		100	90 - 110

Lab Sample ID: LCS 480-477015/4
Matrix: Water
Analysis Batch: 477015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	0.993		mg/L as N		99	90 - 110

Lab Sample ID: MB 480-477199/123
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 10:15	1

Lab Sample ID: MB 480-477199/147
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 10:35	1

Lab Sample ID: MB 480-477199/27
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/11/19 08:53	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-477199/124
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-477199/148
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-477199/28
Matrix: Water
Analysis Batch: 477199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: MB 480-477257/3
Matrix: Water
Analysis Batch: 477257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/11/19 14:06	1

Lab Sample ID: LCS 480-477257/4
Matrix: Water
Analysis Batch: 477257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: MB 480-477411/123
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/12/19 10:32	1

Lab Sample ID: MB 480-477411/3
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/12/19 08:49	1

Lab Sample ID: MB 480-477411/75
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/12/19 09:51	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-477411/124
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-477411/4
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-477411/76
Matrix: Water
Analysis Batch: 477411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: 480-153929-1 MS
Matrix: Ground Water
Analysis Batch: 477411

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.071		0.200	0.280		mg/L as N		104	90 - 110

Lab Sample ID: MB 480-478169/3
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/17/19 13:15	1

Lab Sample ID: MB 480-478169/51
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/17/19 13:56	1

Lab Sample ID: MB 480-478169/75
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/17/19 14:17	1

Lab Sample ID: LCS 480-478169/4
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.04		mg/L as N		104	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-478169/52
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: LCS 480-478169/76
Matrix: Water
Analysis Batch: 478169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: 480-154465-2 MS
Matrix: Water
Analysis Batch: 478169

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.191		mg/L as N		96	90 - 110

Lab Sample ID: MB 480-478358/27
Matrix: Water
Analysis Batch: 478358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/18/19 10:18	1

Lab Sample ID: MB 480-478358/3
Matrix: Water
Analysis Batch: 478358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/18/19 09:58	1

Lab Sample ID: LCS 480-478358/28
Matrix: Water
Analysis Batch: 478358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: LCS 480-478358/4
Matrix: Water
Analysis Batch: 478358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: 480-154543-2 MS
Matrix: Ground Water
Analysis Batch: 478358

Client Sample ID: 627A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.188		mg/L as N		94	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-478397/3
Matrix: Water
Analysis Batch: 478397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/18/19 13:55	1

Lab Sample ID: LCS 480-478397/4
Matrix: Water
Analysis Batch: 478397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: 480-154654-1 MS
Matrix: Ground Water
Analysis Batch: 478397

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.192		mg/L as N		96	90 - 110		

Lab Sample ID: 480-154721-3 MS
Matrix: Ground Water
Analysis Batch: 478397

Client Sample ID: W9-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.206		mg/L as N		103	90 - 110		

Lab Sample ID: 480-154721-3 DU
Matrix: Ground Water
Analysis Batch: 478397

Client Sample ID: W9-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-479295/27
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:35	1

Lab Sample ID: MB 480-479295/51
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:55	1

Lab Sample ID: LCS 480-479295/28
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-479295/52
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: 480-154908-3 MS
Matrix: Ground Water
Analysis Batch: 479295

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.093		0.200	0.300		mg/L as N		103	90 - 110		

Lab Sample ID: 480-154908-3 DU
Matrix: Ground Water
Analysis Batch: 479295

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	0.093			0.0908		mg/L as N				3	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-477920/27
Matrix: Water
Analysis Batch: 477920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050		mg/L as N			06/14/19 21:27	1

Lab Sample ID: LCS 480-477920/28
Matrix: Water
Analysis Batch: 477920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite			1.50	1.51		mg/L as N		101	90 - 110		

Lab Sample ID: 480-154908-F-1 MS
Matrix: Ground Water
Analysis Batch: 477920

Client Sample ID: 480-154908-F-1 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite	ND	U	1.00	0.925		mg/L as N		93	90 - 110		

Lab Sample ID: 480-154908-F-2 DU
Matrix: Ground Water
Analysis Batch: 477920

Client Sample ID: 480-154908-F-2 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrite	ND	U		ND	U	mg/L as N				NC	20

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 480-477987/3
Matrix: Water
Analysis Batch: 477987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050		mg/L as N			06/15/19 12:02	1

Lab Sample ID: LCS 480-477987/4
Matrix: Water
Analysis Batch: 477987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite			1.50	1.53		mg/L as N		102	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-476102/3
Matrix: Water
Analysis Batch: 476102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1

Lab Sample ID: MB 480-476102/75
Matrix: Water
Analysis Batch: 476102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/04/19 11:24	1

Lab Sample ID: LCS 480-476102/4
Matrix: Water
Analysis Batch: 476102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.1		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-476102/76
Matrix: Water
Analysis Batch: 476102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	25.5		mg/L		102	90 - 110		

Lab Sample ID: 480-153454-2 MS
Matrix: Ground Water
Analysis Batch: 476102

Client Sample ID: 1041B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	68.4	*	mg/L		137	75 - 125		

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-476246/27
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/05/19 09:55	1

Lab Sample ID: MB 480-476246/3
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/05/19 09:55	1

Lab Sample ID: LCS 480-476246/28
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.4		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-476246/4
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: MB 480-476540/27
Matrix: Water
Analysis Batch: 476540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/06/19 12:05	1

Lab Sample ID: MB 480-476540/3
Matrix: Water
Analysis Batch: 476540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/06/19 12:05	1

Lab Sample ID: LCS 480-476540/28
Matrix: Water
Analysis Batch: 476540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.4		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-476540/4
Matrix: Water
Analysis Batch: 476540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.4		mg/L		110	90 - 110		

Method: 410.4 - COD

Lab Sample ID: 480-153687-1 MS
Matrix: Ground Water
Analysis Batch: 476540

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	67.7		mg/L		118	75 - 125

Lab Sample ID: 480-153688-1 MS
Matrix: Ground Water
Analysis Batch: 476540

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	69.3	*	mg/L		139	75 - 125

Lab Sample ID: 480-153687-1 DU
Matrix: Ground Water
Analysis Batch: 476540

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND	U	ND	U	mg/L		NC	20

Lab Sample ID: MB 480-477220/27
Matrix: Water
Analysis Batch: 477220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/11/19 10:51	1

Lab Sample ID: LCS 480-477220/28
Matrix: Water
Analysis Batch: 477220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.5		mg/L		94	90 - 110

Lab Sample ID: MB 480-477854/27
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/14/19 10:23	1

Lab Sample ID: MB 480-477854/3
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/14/19 10:23	1

Lab Sample ID: MB 480-477854/51
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/14/19 10:23	1

Method: 410.4 - COD

Lab Sample ID: LCS 480-477854/28
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	22.8		mg/L		91	90 - 110		

Lab Sample ID: LCS 480-477854/4
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-477854/52
Matrix: Water
Analysis Batch: 477854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	22.8		mg/L		91	90 - 110		

Lab Sample ID: 480-153786-1 MS
Matrix: Ground Water
Analysis Batch: 477854

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	12		50.0	72.0		mg/L		121	75 - 125		

Lab Sample ID: 480-153786-3 MS
Matrix: Ground Water
Analysis Batch: 477854

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	71.0	*	mg/L		142	75 - 125		

Lab Sample ID: MB 480-477522/1-A
Matrix: Water
Analysis Batch: 477980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	200		mg/L			06/15/19 10:08	1

Lab Sample ID: MB 480-477980/27
Matrix: Water
Analysis Batch: 477980

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/15/19 10:08	1

Lab Sample ID: LCS 480-477980/28
Matrix: Water
Analysis Batch: 477980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.4		mg/L		110	90 - 110		

Method: 410.4 - COD

Lab Sample ID: 480-153929-1 MS
Matrix: Ground Water
Analysis Batch: 477980

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	39		50.0	65.4	*	mg/L		53	75 - 125

Lab Sample ID: 480-153929-3 MS
Matrix: Ground Water
Analysis Batch: 477980

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	59.8		mg/L		120	75 - 125

Lab Sample ID: 480-153929-1 DU
Matrix: Ground Water
Analysis Batch: 477980

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	39		37.0		mg/L		4	20

Lab Sample ID: MB 480-477981/3
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/15/19 10:07	1

Lab Sample ID: MB 480-477981/51
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/15/19 10:07	1

Lab Sample ID: MB 480-477981/75
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/15/19 10:07	1

Lab Sample ID: LCS 480-477981/4
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	27.1		mg/L		108	90 - 110

Lab Sample ID: LCS 480-477981/52
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	27.4		mg/L		110	90 - 110

Method: 410.4 - COD

Lab Sample ID: LCS 480-477981/76
Matrix: Water
Analysis Batch: 477981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: 480-153888-8 MS
Matrix: Ground Water
Analysis Batch: 477981

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	63.1	*	mg/L		126	75 - 125		

Lab Sample ID: 480-153929-6 MS
Matrix: Ground Water
Analysis Batch: 477981

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	65.7	*	mg/L		131	75 - 125		

Lab Sample ID: 480-153888-8 DU
Matrix: Ground Water
Analysis Batch: 477981

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND	U		ND	U	mg/L				NC	20

Lab Sample ID: MB 480-478356/75
Matrix: Water
Analysis Batch: 478356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/18/19 10:10	1

Lab Sample ID: LCS 480-478356/76
Matrix: Water
Analysis Batch: 478356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.4		mg/L		110	90 - 110		

Lab Sample ID: 480-153929-2 MS
Matrix: Ground Water
Analysis Batch: 478356

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	64.4	*	mg/L		129	75 - 125		

Lab Sample ID: 480-153929-2 DU
Matrix: Ground Water
Analysis Batch: 478356

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND	U		ND	U	mg/L				NC	20

Method: 410.4 - COD

Lab Sample ID: MB 480-480259/3
Matrix: Water
Analysis Batch: 480259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/29/19 10:31	1

Lab Sample ID: LCS 480-480259/4
Matrix: Water
Analysis Batch: 480259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: MB 480-480286/27
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 09:30	1

Lab Sample ID: MB 480-480286/3
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 09:30	1

Lab Sample ID: LCS 480-480286/28
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	23.2		mg/L		93	90 - 110		

Lab Sample ID: LCS 480-480286/4
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	25.5		mg/L		102	90 - 110		

Lab Sample ID: 480-154949-2 MS
Matrix: Ground Water
Analysis Batch: 480286

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	15		50.0	74.5		mg/L		119	75 - 125		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-475869/44
Matrix: Water
Analysis Batch: 475869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/03/19 10:43	1

Lab Sample ID: MB 480-475869/61
Matrix: Water
Analysis Batch: 475869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/03/19 10:49	1

Lab Sample ID: LCS 480-475869/43
Matrix: Water
Analysis Batch: 475869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.9		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-475869/60
Matrix: Water
Analysis Batch: 475869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: MB 480-477009/32
Matrix: Water
Analysis Batch: 477009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 10:17	1

Lab Sample ID: MB 480-477009/65
Matrix: Water
Analysis Batch: 477009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 10:29	1

Lab Sample ID: LCS 480-477009/31
Matrix: Water
Analysis Batch: 477009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.4		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-477009/64
Matrix: Water
Analysis Batch: 477009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.8		mg/L		99	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-153454-1 MS
Matrix: Ground Water
Analysis Batch: 477009

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	17		20.0	39.8		mg/L		115	60 - 128

Lab Sample ID: 480-153454-1 MSD
Matrix: Ground Water
Analysis Batch: 477009

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	17		20.0	39.8		mg/L		115	60 - 128	0	20

Lab Sample ID: 480-153454-3 MS
Matrix: Ground Water
Analysis Batch: 477009

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	13		20.0	38.1		mg/L		123	60 - 128

Lab Sample ID: 480-153454-3 MSD
Matrix: Ground Water
Analysis Batch: 477009

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	13		20.0	36.6		mg/L		116	60 - 128	4	20

Lab Sample ID: MB 480-477115/12
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 13:17	1

Lab Sample ID: MB 480-477115/58
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 15:01	1

Lab Sample ID: LCS 480-477115/11
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	30.2		mg/L		101	90 - 110

Lab Sample ID: LCS 480-477115/57
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	30.4		mg/L		101	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-477117/50
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 16:50	1

Lab Sample ID: LCS 480-477117/49
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.4		mg/L		95	90 - 110		

Lab Sample ID: MB 480-477709/12
Matrix: Water
Analysis Batch: 477709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/13/19 15:34	1

Lab Sample ID: MB 480-477709/36
Matrix: Water
Analysis Batch: 477709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/13/19 15:43	1

Lab Sample ID: LCS 480-477709/11
Matrix: Water
Analysis Batch: 477709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.2		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-477709/35
Matrix: Water
Analysis Batch: 477709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.7		mg/L		96	90 - 110		

Lab Sample ID: 480-153687-1 MS
Matrix: Ground Water
Analysis Batch: 477709

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	16		20.0	39.8		mg/L		119	60 - 128		

Lab Sample ID: 480-153687-1 MSD
Matrix: Ground Water
Analysis Batch: 477709

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	16		20.0	37.9		mg/L		110	60 - 128	5	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-153687-2 MS
Matrix: Ground Water
Analysis Batch: 477709

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	16		20.0	37.3		mg/L		105	60 - 128

Lab Sample ID: 480-153687-2 MSD
Matrix: Ground Water
Analysis Batch: 477709

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	16		20.0	37.4		mg/L		106	60 - 128	0	20

Lab Sample ID: MB 480-478171/42
Matrix: Water
Analysis Batch: 478171

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/17/19 14:42	1

Lab Sample ID: MB 480-478171/68
Matrix: Water
Analysis Batch: 478171

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/17/19 15:10	1

Lab Sample ID: LCS 480-478171/41
Matrix: Water
Analysis Batch: 478171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	29.3		mg/L		98	90 - 110

Lab Sample ID: LCS 480-478171/67
Matrix: Water
Analysis Batch: 478171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	29.5		mg/L		98	90 - 110

Lab Sample ID: 480-153786-3 MS
Matrix: Ground Water
Analysis Batch: 478171

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	14		20.0	38.0		mg/L		120	60 - 128

Lab Sample ID: 480-153786-3 MSD
Matrix: Ground Water
Analysis Batch: 478171

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	14		20.0	39.1		mg/L		126	60 - 128	3	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-153786-5 MS
Matrix: Ground Water
Analysis Batch: 478171

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	26.1	*	mg/L		130	60 - 128

Lab Sample ID: 480-153786-5 MSD
Matrix: Ground Water
Analysis Batch: 478171

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	26.4	*	mg/L		132	60 - 128	1	20

Lab Sample ID: MB 480-478381/46
Matrix: Water
Analysis Batch: 478381

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/18/19 12:39	1

Lab Sample ID: LCS 480-478381/45
Matrix: Water
Analysis Batch: 478381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.9		mg/L		96	90 - 110

Lab Sample ID: 480-153888-1 MS
Matrix: Ground Water
Analysis Batch: 478381

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	18		20.0	38.6		mg/L		104	60 - 128

Lab Sample ID: 480-153888-1 MSD
Matrix: Ground Water
Analysis Batch: 478381

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	18		20.0	38.4		mg/L		103	60 - 128	0	20

Lab Sample ID: MB 480-478743/22
Matrix: Water
Analysis Batch: 478743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/19/19 20:43	1

Lab Sample ID: LCS 480-478743/21
Matrix: Water
Analysis Batch: 478743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.1		mg/L		94	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-153929-1 MS
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	7.0		20.0	30.4		mg/L		117	60 - 128		

Lab Sample ID: 480-153929-1 MSD
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.0		20.0	30.2		mg/L		116	60 - 128	1	20

Lab Sample ID: 480-153929-2 MS
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	31.9	*	mg/L		159	60 - 128		

Lab Sample ID: 480-153929-2 MSD
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.7	*	mg/L		149	60 - 128	7	20

Lab Sample ID: 480-153929-3 MS
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	7.8		20.0	30.4		mg/L		113	60 - 128		

Lab Sample ID: 480-153929-3 MSD
Matrix: Ground Water
Analysis Batch: 478743

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.8		20.0	31.1		mg/L		116	60 - 128	2	20

Lab Sample ID: MB 480-479655/12
Matrix: Water
Analysis Batch: 479655

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/25/19 10:56	1

Lab Sample ID: LCS 480-479655/11
Matrix: Water
Analysis Batch: 479655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.1		mg/L		94	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-153929-5 MS
Matrix: Ground Water
Analysis Batch: 479655

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	30.2		mg/L		127	60 - 128

Lab Sample ID: 480-153929-5 MSD
Matrix: Ground Water
Analysis Batch: 479655

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.5		mg/L		123	60 - 128	2	20

Lab Sample ID: MB 480-480471/12
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/01/19 11:16	1

Lab Sample ID: MB 480-480471/39
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/01/19 12:28	1

Lab Sample ID: MB 480-480471/81
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/01/19 13:11	1

Lab Sample ID: MB 480-480471/99
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/01/19 13:57	1

Lab Sample ID: LCS 480-480471/11
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	29.3		mg/L		98	90 - 110

Lab Sample ID: LCS 480-480471/38
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	28.2		mg/L		94	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-480471/80
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	27.5		mg/L		92	90 - 110

Lab Sample ID: LCS 480-480471/98
Matrix: Water
Analysis Batch: 480471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	27.8		mg/L		93	90 - 110

Lab Sample ID: MB 480-480574/12
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			07/02/19 11:29	1

Lab Sample ID: MB 480-480574/43
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			07/02/19 12:20	1

Lab Sample ID: MB 480-480574/65
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			07/02/19 13:03	1

Lab Sample ID: LCS 480-480574/11
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.2		mg/L		94	90 - 110

Lab Sample ID: LCS 480-480574/42
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.0		mg/L		97	90 - 110

Lab Sample ID: LCS 480-480574/64
Matrix: Water
Analysis Batch: 480574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.9		mg/L		100	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-480636/50
Matrix: Water
Analysis Batch: 480636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/02/19 16:05	1

Lab Sample ID: MB 480-480636/63
Matrix: Water
Analysis Batch: 480636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/02/19 16:21	1

Lab Sample ID: LCS 480-480636/49
Matrix: Water
Analysis Batch: 480636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.8		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-480636/62
Matrix: Water
Analysis Batch: 480636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.5		mg/L		95	90 - 110		

Lab Sample ID: MB 480-480855/70
Matrix: Water
Analysis Batch: 480855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/03/19 16:19	1

Lab Sample ID: LCS 480-480855/69
Matrix: Water
Analysis Batch: 480855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	27.0		mg/L		90	90 - 110		

Lab Sample ID: MB 480-481176/32
Matrix: Water
Analysis Batch: 481176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 10:20	1

Lab Sample ID: LCS 480-481176/31
Matrix: Water
Analysis Batch: 481176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.1		mg/L		97	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-481426/32
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 14:29	1

Lab Sample ID: MB 480-481426/63
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:04	1

Lab Sample ID: MB 480-481426/84
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:36	1

Lab Sample ID: LCS 480-481426/31
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.9		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-481426/62
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-481426/83
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.3		mg/L		94	90 - 110		

Lab Sample ID: 480-154908-1 MS
Matrix: Ground Water
Analysis Batch: 481426

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	31.7	*	mg/L		135	60 - 128		

Lab Sample ID: 480-154908-1 MSD
Matrix: Ground Water
Analysis Batch: 481426

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	30.9	*	mg/L		131	60 - 128	3	20

Method: 9040C - pH

Lab Sample ID: LCS 480-478553/1
Matrix: Water
Analysis Batch: 478553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: 9251 - Chloride

Lab Sample ID: MB 480-474334/142
Matrix: Water
Analysis Batch: 474334

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			05/22/19 16:36	1

Lab Sample ID: MB 480-474334/154
Matrix: Water
Analysis Batch: 474334

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			05/22/19 16:39	1

Lab Sample ID: LCS 480-474334/143
Matrix: Water
Analysis Batch: 474334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-474334/155
Matrix: Water
Analysis Batch: 474334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: 480-153454-1 MS
Matrix: Ground Water
Analysis Batch: 474334

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.5		20.0	25.2		mg/L		114	74 - 131		

Lab Sample ID: 480-153454-1 MSD
Matrix: Ground Water
Analysis Batch: 474334

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		20.0	25.4		mg/L		115	74 - 131	1	20

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 480-475272/45
Matrix: Water
Analysis Batch: 475272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.532		0.50		mg/L			05/29/19 16:52	1

Lab Sample ID: LCS 480-475272/46
Matrix: Water
Analysis Batch: 475272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.9		mg/L		108	90 - 110		

Lab Sample ID: 480-152997-1 MS
Matrix: Ground Water
Analysis Batch: 475272

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.4	BL	20.0	24.8		mg/L		112	74 - 131		

Lab Sample ID: 480-152997-1 MSD
Matrix: Ground Water
Analysis Batch: 475272

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.4	BL	20.0	24.9		mg/L		112	74 - 131	0	20

Lab Sample ID: MB 480-476610/12
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/06/19 10:45	1

Lab Sample ID: MB 480-476610/35
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/06/19 15:09	1

Lab Sample ID: MB 480-476610/47
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.768		0.50		mg/L			06/06/19 15:28	1

Lab Sample ID: MB 480-476610/99
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/06/19 17:46	1

Method: 9251 - Chloride

Lab Sample ID: LCS 480-476610/100
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: LCS 480-476610/13
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.0		mg/L		108	90 - 110

Lab Sample ID: LCS 480-476610/36
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: LCS 480-476610/48
Matrix: Water
Analysis Batch: 476610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.2		mg/L		109	90 - 110

Lab Sample ID: 480-153888-1 MS
Matrix: Ground Water
Analysis Batch: 476610

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.7		20.0	21.6		mg/L		99	74 - 131

Lab Sample ID: 480-153888-1 MSD
Matrix: Ground Water
Analysis Batch: 476610

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.7		20.0	24.6		mg/L		115	74 - 131	13	20

Lab Sample ID: MB 480-476956/136
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/09/19 13:18	1

Lab Sample ID: MB 480-476956/156
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/09/19 14:13	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-476956/166
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.598		0.50		mg/L			06/09/19 14:36	1

Lab Sample ID: LCS 480-476956/137
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.1		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-476956/157
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-476956/167
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: MB 480-477359/12
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.542		0.50		mg/L			06/11/19 12:52	1

Lab Sample ID: MB 480-477359/34
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.645		0.50		mg/L			06/11/19 13:06	1

Lab Sample ID: LCS 480-477359/13
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.2		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-477359/35
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.9		mg/L		108	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: 480-153523-2 MS
Matrix: Ground Water
Analysis Batch: 477359

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.5	BL	20.0	24.4		mg/L		115	74 - 131		

Lab Sample ID: 480-153523-2 MSD
Matrix: Ground Water
Analysis Batch: 477359

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5	BL	20.0	24.1		mg/L		113	74 - 131	1	20

Lab Sample ID: MB 480-478009/27
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/13/19 20:22	1

Lab Sample ID: MB 480-478009/45
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/13/19 21:05	1

Lab Sample ID: MB 480-478009/56
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/13/19 23:14	1

Lab Sample ID: LCS 480-478009/28
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.4		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478009/46
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.2		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478009/57
Matrix: Water
Analysis Batch: 478009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.4		mg/L		105	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: 480-153687-3 MS
Matrix: Ground Water
Analysis Batch: 478009

Client Sample ID: 620C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.4		20.0	21.8		mg/L		102	74 - 131		

Lab Sample ID: 480-153687-3 MSD
Matrix: Ground Water
Analysis Batch: 478009

Client Sample ID: 620C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.4		20.0	23.6		mg/L		111	74 - 131	8	20

Lab Sample ID: MB 480-478220/20
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/17/19 13:26	1

Lab Sample ID: MB 480-478220/37
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/17/19 13:39	1

Lab Sample ID: MB 480-478220/48
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/17/19 14:15	1

Lab Sample ID: LCS 480-478220/21
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478220/38
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478220/49
Matrix: Water
Analysis Batch: 478220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.1		mg/L		108	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: 480-153786-5 MS
Matrix: Ground Water
Analysis Batch: 478220

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13		20.0	33.4		mg/L		104	74 - 131

Lab Sample ID: 480-153786-5 MSD
Matrix: Ground Water
Analysis Batch: 478220

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13		20.0	33.7		mg/L		106	74 - 131	1	20

Lab Sample ID: 480-153786-6 MS
Matrix: Ground Water
Analysis Batch: 478220

Client Sample ID: W11-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.1		20.0	25.9		mg/L		109	74 - 131

Lab Sample ID: 480-153786-6 MSD
Matrix: Ground Water
Analysis Batch: 478220

Client Sample ID: W11-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.1		20.0	26.0		mg/L		110	74 - 131	0	20

Lab Sample ID: MB 480-478510/12
Matrix: Water
Analysis Batch: 478510

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/18/19 17:23	1

Lab Sample ID: MB 480-478510/22
Matrix: Water
Analysis Batch: 478510

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/18/19 17:25	1

Lab Sample ID: LCS 480-478510/13
Matrix: Water
Analysis Batch: 478510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: LCS 480-478510/23
Matrix: Water
Analysis Batch: 478510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			25.0	26.0		mg/L		104	90 - 110

Method: 9251 - Chloride

Lab Sample ID: 480-153786-3 MS
Matrix: Ground Water
Analysis Batch: 478510

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	0.56		20.0	22.1		mg/L		108	74 - 131		

Lab Sample ID: 480-153786-3 MSD
Matrix: Ground Water
Analysis Batch: 478510

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	0.56		20.0	22.2		mg/L		108	74 - 131	1	20

Lab Sample ID: MB 480-478737/126
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 15:17	1

Lab Sample ID: MB 480-478737/161
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 18:33	1

Lab Sample ID: MB 480-478737/173
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 18:35	1

Lab Sample ID: MB 480-478737/217
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 20:00	1

Lab Sample ID: MB 480-478737/229
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 20:02	1

Lab Sample ID: MB 480-478737/34
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 12:19	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-478737/68
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 12:29	1

Lab Sample ID: MB 480-478737/80
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/19/19 12:36	1

Lab Sample ID: LCS 480-478737/127
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478737/162
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-478737/174
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.0		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-478737/218
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.1		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478737/230
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478737/35
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.1		mg/L		104	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: LCS 480-478737/69
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-478737/81
Matrix: Water
Analysis Batch: 478737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.2		mg/L		105	90 - 110		

Lab Sample ID: 480-153888-2 MS
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 107BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	35		20.0	54.2		mg/L		94	74 - 131		

Lab Sample ID: 480-153888-2 MSD
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 107BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	35		20.0	54.4		mg/L		95	74 - 131	0	20

Lab Sample ID: 480-153929-1 MS
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.8		20.0	23.8		mg/L		110	74 - 131		

Lab Sample ID: 480-153929-1 MSD
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.8		20.0	23.8		mg/L		110	74 - 131	0	20

Lab Sample ID: 480-153929-2 MS
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.7		20.0	22.2		mg/L		103	74 - 131		

Lab Sample ID: 480-153929-2 MSD
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.7		20.0	23.7		mg/L		110	74 - 131	6	20

Method: 9251 - Chloride

Lab Sample ID: 480-154465-2 MS
Matrix: Water
Analysis Batch: 478737

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.1		20.0	21.8		mg/L		104	74 - 131

Lab Sample ID: 480-154465-2 MSD
Matrix: Water
Analysis Batch: 478737

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.1		20.0	23.0		mg/L		110	74 - 131	5	20

Lab Sample ID: 480-154465-3 MS
Matrix: Water
Analysis Batch: 478737

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.0		20.0	22.4		mg/L		107	74 - 131

Lab Sample ID: 480-154465-3 MSD
Matrix: Water
Analysis Batch: 478737

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.0		20.0	22.7		mg/L		108	74 - 131	1	20

Lab Sample ID: 480-154543-2 MS
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 627A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.4		20.0	27.4		mg/L		105	74 - 131

Lab Sample ID: 480-154543-2 MSD
Matrix: Ground Water
Analysis Batch: 478737

Client Sample ID: 627A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.4		20.0	27.8		mg/L		107	74 - 131	1	20

Lab Sample ID: MB 480-479324/12
Matrix: Water
Analysis Batch: 479324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/23/19 09:23	1

Lab Sample ID: MB 480-479324/21
Matrix: Water
Analysis Batch: 479324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/23/19 09:23	1

Method: 9251 - Chloride

Lab Sample ID: LCS 480-479324/13
Matrix: Water
Analysis Batch: 479324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: LCS 480-479324/22
Matrix: Water
Analysis Batch: 479324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.4		mg/L		106	90 - 110

Lab Sample ID: MB 480-479577/12
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/25/19 09:40	1

Lab Sample ID: MB 480-479577/27
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/25/19 09:59	1

Lab Sample ID: MB 480-479577/65
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			06/25/19 12:21	1

Lab Sample ID: LCS 480-479577/13
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.8		mg/L		103	90 - 110

Lab Sample ID: LCS 480-479577/28
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: LCS 480-479577/66
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.0		mg/L		104	90 - 110

Method: 9251 - Chloride

Lab Sample ID: MB 480-480960/110
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/03/19 16:07	1

Lab Sample ID: MB 480-480960/65
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/03/19 15:33	1

Lab Sample ID: MB 480-480960/76
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/03/19 15:41	1

Lab Sample ID: MB 480-480960/93
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/03/19 15:51	1

Lab Sample ID: LCS 480-480960/111
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.8		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-480960/66
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.0		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-480960/77
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-480960/94
Matrix: Water
Analysis Batch: 480960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.9		mg/L		103	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-481390/12
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 13:55	1

Lab Sample ID: MB 480-481390/49
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:13	1

Lab Sample ID: MB 480-481390/64
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:28	1

Lab Sample ID: LCS 480-481390/13
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.5		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-481390/50
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.1		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-481390/65
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.3		mg/L		101	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-472279/1
Matrix: Water
Analysis Batch: 472279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/10/19 12:03	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-472279/2
Matrix: Water
Analysis Batch: 472279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	449		mg/L		90	85 - 115

Lab Sample ID: MB 480-473397/1
Matrix: Water
Analysis Batch: 473397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			05/17/19 09:59	1

Lab Sample ID: LCS 480-473397/2
Matrix: Water
Analysis Batch: 473397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	457		mg/L		91	85 - 115

Lab Sample ID: MB 480-473988/1
Matrix: Water
Analysis Batch: 473988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			05/21/19 15:30	1

Lab Sample ID: LCS 480-473988/2
Matrix: Water
Analysis Batch: 473988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	496		mg/L		99	85 - 115

Lab Sample ID: MB 480-474260/1
Matrix: Water
Analysis Batch: 474260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			05/22/19 19:52	1

Lab Sample ID: LCS 480-474260/2
Matrix: Water
Analysis Batch: 474260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	461		mg/L		92	85 - 115

Lab Sample ID: 480-153899-1 DU
Matrix: Ground Water
Analysis Batch: 474260

Client Sample ID: 629E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	100		105		mg/L		1	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-474460/1
Matrix: Water
Analysis Batch: 474460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/23/19 14:57	1

Lab Sample ID: LCS 480-474460/2
Matrix: Water
Analysis Batch: 474460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	442		mg/L		88	85 - 115		

Lab Sample ID: 480-153687-3 DU
Matrix: Ground Water
Analysis Batch: 474460

Client Sample ID: 620C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	77			78.0		mg/L				1	10

Lab Sample ID: 480-153688-1 DU
Matrix: Ground Water
Analysis Batch: 474460

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	68			68.0		mg/L				0	10

Lab Sample ID: MB 480-474466/1
Matrix: Water
Analysis Batch: 474466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/23/19 15:09	1

Lab Sample ID: LCS 480-474466/2
Matrix: Water
Analysis Batch: 474466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	460		mg/L		92	85 - 115		

Lab Sample ID: 480-153688-2 DU
Matrix: Ground Water
Analysis Batch: 474466

Client Sample ID: W11-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	55			53.0		mg/L				4	10

Lab Sample ID: MB 480-474715/1
Matrix: Water
Analysis Batch: 474715

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/25/19 08:24	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-474715/2
Matrix: Water
Analysis Batch: 474715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	491		mg/L		98	85 - 115		

Lab Sample ID: MB 480-474901/1
Matrix: Water
Analysis Batch: 474901

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.00		5.0		mg/L			05/28/19 10:58	1

Lab Sample ID: LCS 480-474901/2
Matrix: Water
Analysis Batch: 474901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	478		mg/L		96	85 - 115		

Lab Sample ID: 480-153888-1 DU
Matrix: Ground Water
Analysis Batch: 474901

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	89	BL		91.0		mg/L				2	10

Lab Sample ID: MB 480-474902/1
Matrix: Water
Analysis Batch: 474902

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/28/19 11:09	1

Lab Sample ID: LCS 480-474902/2
Matrix: Water
Analysis Batch: 474902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	476		mg/L		95	85 - 115		

Lab Sample ID: 480-153888-3 DU
Matrix: Ground Water
Analysis Batch: 474902

Client Sample ID: 107CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	180			184		mg/L				0	10

Lab Sample ID: MB 480-475032/1
Matrix: Water
Analysis Batch: 475032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/29/19 08:19	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-475032/2
Matrix: Water
Analysis Batch: 475032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	500		mg/L		100	85 - 115

Lab Sample ID: 480-153929-1 DU
Matrix: Ground Water
Analysis Batch: 475032

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	38		41.0		mg/L		8	10

Lab Sample ID: MB 480-475078/1
Matrix: Water
Analysis Batch: 475078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			05/29/19 10:34	1

Lab Sample ID: LCS 480-475078/2
Matrix: Water
Analysis Batch: 475078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	499		mg/L		100	85 - 115

Lab Sample ID: MB 480-476467/1
Matrix: Water
Analysis Batch: 476467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			06/06/19 08:46	1

Lab Sample ID: LCS 480-476467/2
Matrix: Water
Analysis Batch: 476467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	505		mg/L		101	85 - 115

Lab Sample ID: MB 480-476976/1
Matrix: Water
Analysis Batch: 476976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			06/10/19 09:07	1

Lab Sample ID: LCS 480-476976/2
Matrix: Water
Analysis Batch: 476976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	479		mg/L		95	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-477241/1
Matrix: Water
Analysis Batch: 477241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/11/19 14:17	1

Lab Sample ID: LCS 480-477241/2
Matrix: Water
Analysis Batch: 477241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	486		mg/L		97	85 - 115		

Lab Sample ID: 480-154543-1 DU
Matrix: Ground Water
Analysis Batch: 477241

Client Sample ID: 626B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	27			27.0		mg/L				0	10

Lab Sample ID: 480-154543-2 DU
Matrix: Ground Water
Analysis Batch: 477241

Client Sample ID: 627A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	84			78.0		mg/L				7	10

Lab Sample ID: MB 480-477345/1
Matrix: Water
Analysis Batch: 477345

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00		5.0		mg/L			06/12/19 08:06	1

Lab Sample ID: LCS 480-477345/2
Matrix: Water
Analysis Batch: 477345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	491		mg/L		98	85 - 115		

Lab Sample ID: 480-154543-3 DU
Matrix: Ground Water
Analysis Batch: 477345

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110	BL		106		mg/L				0.9	10

Lab Sample ID: MB 480-477629/1
Matrix: Water
Analysis Batch: 477629

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/13/19 10:28	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-477629/2
Matrix: Water
Analysis Batch: 477629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	460		mg/L		92	85 - 115		

Lab Sample ID: 480-154721-1 DU
Matrix: Ground Water
Analysis Batch: 477629

Client Sample ID: 104C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	130			132		mg/L				0.8	10

Lab Sample ID: 480-154721-4 DU
Matrix: Ground Water
Analysis Batch: 477629

Client Sample ID: W9-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			110		mg/L				0	10

Lab Sample ID: MB 480-477659/1
Matrix: Water
Analysis Batch: 477659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/13/19 12:47	1

Lab Sample ID: LCS 480-477659/2
Matrix: Water
Analysis Batch: 477659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	494		mg/L		99	85 - 115		

Lab Sample ID: 480-153929-2 DU
Matrix: Ground Water
Analysis Batch: 477659

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	300			283		mg/L				4	10

Lab Sample ID: MB 480-478525/1
Matrix: Water
Analysis Batch: 478525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/19/19 08:26	1

Lab Sample ID: LCS 480-478525/2
Matrix: Water
Analysis Batch: 478525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	504		mg/L		101	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 480-154908-2 DU
Matrix: Ground Water
Analysis Batch: 478525

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			108		mg/L				3	10

Lab Sample ID: 480-154908-3 DU
Matrix: Ground Water
Analysis Batch: 478525

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			103		mg/L				6	10

Lab Sample ID: MB 480-478811/1
Matrix: Water
Analysis Batch: 478811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/20/19 11:06	1

Lab Sample ID: LCS 480-478811/2
Matrix: Water
Analysis Batch: 478811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	496		mg/L		99	85 - 115		

Lab Sample ID: 480-154949-2 DU
Matrix: Ground Water
Analysis Batch: 478811

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	410			414		mg/L				0.7	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-472095/1
Matrix: Water
Analysis Batch: 472095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/09/19 14:46	1

Lab Sample ID: LCS 480-472095/2
Matrix: Water
Analysis Batch: 472095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			251	243		mg/L		97	88 - 110		

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: MB 480-473747/1
Matrix: Water
Analysis Batch: 473747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/20/19 13:27	1

Lab Sample ID: LCS 480-473747/2
Matrix: Water
Analysis Batch: 473747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			276	274		mg/L		99	88 - 110		

Lab Sample ID: 480-153454-6 DU
Matrix: Ground Water
Analysis Batch: 473747

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	11			12.0		mg/L				7	10

Lab Sample ID: 480-153454-7 DU
Matrix: Ground Water
Analysis Batch: 473747

Client Sample ID: 618CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-473951/1
Matrix: Water
Analysis Batch: 473951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/21/19 13:58	1

Lab Sample ID: LCS 480-473951/2
Matrix: Water
Analysis Batch: 473951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			275	273		mg/L		99	88 - 110		

Lab Sample ID: 480-153523-1 DU
Matrix: Ground Water
Analysis Batch: 473951

Client Sample ID: 629B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-474487/1
Matrix: Water
Analysis Batch: 474487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/23/19 17:35	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-474487/2
Matrix: Water
Analysis Batch: 474487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			259	255		mg/L		98	88 - 110		

Lab Sample ID: 480-153687-1 DU
Matrix: Ground Water
Analysis Batch: 474487

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: 480-153687-2 DU
Matrix: Ground Water
Analysis Batch: 474487

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-474623/1
Matrix: Water
Analysis Batch: 474623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/24/19 12:48	1

Lab Sample ID: LCS 480-474623/2
Matrix: Water
Analysis Batch: 474623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			272	270		mg/L		99	88 - 110		

Lab Sample ID: 480-153888-3 DU
Matrix: Ground Water
Analysis Batch: 474623

Client Sample ID: 107CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: 480-153888-4 DU
Matrix: Ground Water
Analysis Batch: 474623

Client Sample ID: DUP-GW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-474650/1
Matrix: Water
Analysis Batch: 474650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/24/19 14:35	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-474650/2
Matrix: Water
Analysis Batch: 474650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	261	253		mg/L		97	88 - 110

Lab Sample ID: 480-153786-1 DU
Matrix: Ground Water
Analysis Batch: 474650

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-475126/1
Matrix: Water
Analysis Batch: 475126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			05/29/19 12:44	1

Lab Sample ID: LCS 480-475126/2
Matrix: Water
Analysis Batch: 475126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	252	251		mg/L		100	88 - 110

Lab Sample ID: 480-153929-1 DU
Matrix: Ground Water
Analysis Batch: 475126

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-477032/1
Matrix: Water
Analysis Batch: 477032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/10/19 12:44	1

Lab Sample ID: LCS 480-477032/2
Matrix: Water
Analysis Batch: 477032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	274	270		mg/L		99	88 - 110

Lab Sample ID: MB 480-477387/1
Matrix: Water
Analysis Batch: 477387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/12/19 10:24	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-477387/2
Matrix: Water
Analysis Batch: 477387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			269	267		mg/L		99	88 - 110		

Lab Sample ID: 480-154543-3 DU
Matrix: Ground Water
Analysis Batch: 477387

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-477568/1
Matrix: Water
Analysis Batch: 477568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/13/19 08:10	1

Lab Sample ID: LCS 480-477568/2
Matrix: Water
Analysis Batch: 477568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			257	250		mg/L		97	88 - 110		

Lab Sample ID: 480-154465-1 DU
Matrix: Water
Analysis Batch: 477568

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-477828/1
Matrix: Water
Analysis Batch: 477828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/14/19 10:52	1

Lab Sample ID: LCS 480-477828/2
Matrix: Water
Analysis Batch: 477828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			270	260		mg/L		96	88 - 110		

Lab Sample ID: 480-154721-1 DU
Matrix: Ground Water
Analysis Batch: 477828

Client Sample ID: 104C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: 480-154721-3 DU
Matrix: Ground Water
Analysis Batch: 477828

Client Sample ID: W9-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-478072/1
Matrix: Water
Analysis Batch: 478072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/17/19 08:39	1

Lab Sample ID: LCS 480-478072/2
Matrix: Water
Analysis Batch: 478072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	274	266		mg/L		97	88 - 110

Lab Sample ID: MB 480-478591/1
Matrix: Water
Analysis Batch: 478591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/19/19 12:05	1

Lab Sample ID: LCS 480-478591/2
Matrix: Water
Analysis Batch: 478591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	278	276		mg/L		99	88 - 110

Lab Sample ID: MB 480-478792/1
Matrix: Water
Analysis Batch: 478792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/20/19 10:15	1

Lab Sample ID: LCS 480-478792/2
Matrix: Water
Analysis Batch: 478792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	271	255		mg/L		94	88 - 110

Lab Sample ID: 480-154949-1 DU
Matrix: Ground Water
Analysis Batch: 478792

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-482863/1
Matrix: Water
Analysis Batch: 482863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			07/19/19 12:51	1

Lab Sample ID: LCS 480-482863/2
Matrix: Water
Analysis Batch: 482863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			268	262		mg/L		98	88 - 110		

Lab Sample ID: 480-153454-1 DU
Matrix: Ground Water
Analysis Batch: 482863

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Method: SM 5310C - TOC

Lab Sample ID: MB 480-475668/27
Matrix: Water
Analysis Batch: 475668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			05/31/19 01:07	1

Lab Sample ID: LCS 480-475668/28
Matrix: Water
Analysis Batch: 475668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	57.9		mg/L		97	90 - 110		

Lab Sample ID: MB 480-476012/28
Matrix: Water
Analysis Batch: 476012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 01:54	1

Lab Sample ID: MB 480-476012/52
Matrix: Water
Analysis Batch: 476012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/01/19 08:31	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-476012/29
Matrix: Water
Analysis Batch: 476012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	63.9		mg/L		106	90 - 110

Lab Sample ID: LCS 480-476012/53
Matrix: Water
Analysis Batch: 476012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.5		mg/L		99	90 - 110

Lab Sample ID: MB 480-476550/4
Matrix: Water
Analysis Batch: 476550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			06/05/19 16:30	1

Lab Sample ID: LCS 480-476550/5
Matrix: Water
Analysis Batch: 476550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.5		mg/L		101	90 - 110

Lab Sample ID: MB 480-476619/52
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			06/06/19 08:14	1

Lab Sample ID: LCS 480-476619/53
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.4		mg/L		101	90 - 110

Lab Sample ID: MB 480-476753/52
Matrix: Water
Analysis Batch: 476753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			06/07/19 01:30	1

Lab Sample ID: LCS 480-476753/53
Matrix: Water
Analysis Batch: 476753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.6		mg/L		99	90 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 480-477495/75
Matrix: Water
Analysis Batch: 477495

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/12/19 11:39	1

Lab Sample ID: LCS 480-477495/76
Matrix: Water
Analysis Batch: 477495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	61.5		mg/L		103	90 - 110		

Lab Sample ID: MB 480-477716/27
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 03:44	1

Lab Sample ID: LCS 480-477716/28
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.4		mg/L		99	90 - 110		

Lab Sample ID: MB 480-477975/4
Matrix: Water
Analysis Batch: 477975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/13/19 20:58	1

Lab Sample ID: LCS 480-477975/5
Matrix: Water
Analysis Batch: 477975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.6		mg/L		98	90 - 110		

Lab Sample ID: MB 480-478371/26
Matrix: Water
Analysis Batch: 478371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/15/19 18:53	1

Lab Sample ID: LCS 480-478371/27
Matrix: Water
Analysis Batch: 478371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	67.2	*	mg/L		112	90 - 110		

Method: SM 5310C - TOC

Lab Sample ID: 480-153929-5 MS
Matrix: Ground Water
Analysis Batch: 478371

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U *	44.0	46.4		mg/L		105	54 - 131		

Lab Sample ID: 480-153929-5 MSD
Matrix: Ground Water
Analysis Batch: 478371

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U *	44.0	46.2		mg/L		105	54 - 131	0	20

Lab Sample ID: MB 480-479088/27
Matrix: Water
Analysis Batch: 479088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/20/19 23:17	1

Lab Sample ID: LCS 480-479088/28
Matrix: Water
Analysis Batch: 479088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.5		mg/L		98	90 - 110		

Lab Sample ID: MB 480-479170/4
Matrix: Water
Analysis Batch: 479170

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/21/19 14:12	1

Lab Sample ID: LCS 480-479170/5
Matrix: Water
Analysis Batch: 479170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.2		mg/L		99	90 - 110		

Lab Sample ID: MB 480-480208/27
Matrix: Water
Analysis Batch: 480208

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/27/19 21:00	1

Lab Sample ID: MB 480-480208/51
Matrix: Water
Analysis Batch: 480208

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/28/19 02:51	1

Method: SM 5310C - TOC

Lab Sample ID: LCS 480-480208/28
Matrix: Water
Analysis Batch: 480208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.0		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-480208/52
Matrix: Water
Analysis Batch: 480208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.1		mg/L		99	90 - 110		

Lab Sample ID: MB 480-480987/4
Matrix: Water
Analysis Batch: 480987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/03/19 17:31	1

Lab Sample ID: LCS 480-480987/5
Matrix: Water
Analysis Batch: 480987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.3		mg/L		99	90 - 110		

Lab Sample ID: 480-154654-1 MS
Matrix: Ground Water
Analysis Batch: 480987

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.2		44.0	42.6		mg/L		94	54 - 131		

Lab Sample ID: 480-154654-1 MSD
Matrix: Ground Water
Analysis Batch: 480987

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2		44.0	42.5		mg/L		94	54 - 131	0	20

Lab Sample ID: MB 480-481318/27
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 00:29	1

Lab Sample ID: LCS 480-481318/28
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.1		mg/L		97	90 - 110		

Method: 353.2_Nitrite -

Lab Sample ID: MB 480-477920/3
Matrix:
Analysis Batch: 477920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier			Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050		mg/L as N			06/14/19 21:00	1

Lab Sample ID: LCS 480-477920/4
Matrix:
Analysis Batch: 477920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite			1.50	1.53		mg/L as N		102	90 - 110		

GC/MS VOA

Analysis Batch: 472454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	8260C	
MB 480-472454/8	Method Blank	Total/NA	Water	8260C	
LCS 480-472454/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 473590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	8260C	
480-153454-2	1041B	Total/NA	Ground Water	8260C	
480-153454-3	1134B	Total/NA	Ground Water	8260C	
480-153454-4	617A	Total/NA	Ground Water	8260C	
480-153454-5	617C	Total/NA	Ground Water	8260C	
480-153454-6	618AR	Total/NA	Ground Water	8260C	
480-153454-7	618CR	Total/NA	Ground Water	8260C	
480-153454-8	TB-01	Total/NA	WQ	8260C	
MB 480-473590/7	Method Blank	Total/NA	Water	8260C	
LCS 480-473590/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	8260C	
480-153523-2	630E	Total/NA	Ground Water	8260C	
480-153523-3	TB-01	Total/NA	WQ	8260C	
MB 480-474076/7	Method Blank	Total/NA	Water	8260C	
LCS 480-474076/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	8260C	
MB 480-474322/7	Method Blank	Total/NA	Water	8260C	
LCS 480-474322/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	8260C	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	8260C	
480-153687-3	620C	Total/NA	Ground Water	8260C	
480-153687-4	TB-01	Total/NA	WQ	8260C	
MB 480-474427/7	Method Blank	Total/NA	Water	8260C	
LCS 480-474427/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153688-1	630B	Total/NA	Ground Water	8260C	
480-153688-3	TB-01	Total/NA	WQ	8260C	
MB 480-474543/7	Method Blank	Total/NA	Water	8260C	
LCS 480-474543/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-4	TB-01	Total/NA	WQ	8260C	
MB 480-474842/8	Method Blank	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 474842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-474842/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 474848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-5	W11-2E	Total/NA	Ground Water	8260C	
MB 480-474848/7	Method Blank	Total/NA	Water	8260C	
LCS 480-474848/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 475125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	8260C	
480-153888-2	107BR	Total/NA	Ground Water	8260C	
480-153888-5	TB-01	Total/NA	WQ	8260C	
480-153888-7	W11-3E	Total/NA	Ground Water	8260C	
MB 480-475125/7	Method Blank	Total/NA	Water	8260C	
LCS 480-475125/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 475323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-4	TB-01	Total/NA	WQ	8260C	
480-153929-6	W12-4E	Total/NA	Ground Water	8260C	
MB 480-475323/7	Method Blank	Total/NA	Water	8260C	
LCS 480-475323/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 475604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-4	DUP-GW-02	Total/NA	Ground Water	8260C	
MB 480-475604/7	Method Blank	Total/NA	Water	8260C	
LCS 480-475604/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 476409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-2	W12-2E	Total/NA	Water	8260C	
MB 480-476409/7	Method Blank	Total/NA	Water	8260C	
LCS 480-476409/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 476643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	8260C	
480-154543-2	627A	Total/NA	Ground Water	8260C	
480-154543-3	628A	Total/NA	Ground Water	8260C	
MB 480-476643/7	Method Blank	Total/NA	Water	8260C	
LCS 480-476643/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 477169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-2	TB-07	Total/NA	WQ	8260C	
480-154721-4	W9-2E	Total/NA	Ground Water	8260C	
MB 480-477169/7	Method Blank	Total/NA	Water	8260C	
LCS 480-477169/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-477169/9	Lab Control Sample Dup	Total/NA	Water	8260C	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

GC/MS VOA

Analysis Batch: 478467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-2	624B	Total/NA	Ground Water	8260C	
MB 480-478467/8	Method Blank	Total/NA	Water	8260C	
LCS 480-478467/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 472271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	3005A	
MB 480-472271/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-472271/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 473190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	3005A	
480-153454-2	1041B	Total/NA	Ground Water	3005A	
480-153454-3	1134B	Total/NA	Ground Water	3005A	
480-153454-4	617A	Total/NA	Ground Water	3005A	
480-153454-5	617C	Total/NA	Ground Water	3005A	
480-153454-6	618AR	Total/NA	Ground Water	3005A	
480-153454-7	618CR	Total/NA	Ground Water	3005A	
MB 480-473190/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-473190/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-153454-1 MS	1040B	Total/NA	Ground Water	3005A	
480-153454-1 MSD	1040B	Total/NA	Ground Water	3005A	

Prep Batch: 473449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	3005A	
480-153523-2	630E	Total/NA	Ground Water	3005A	
MB 480-473449/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-473449/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-153523-1 MS	629B	Total/NA	Ground Water	3005A	
480-153523-1 MSD	629B	Total/NA	Ground Water	3005A	

Prep Batch: 473773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	3005A	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	3005A	
480-153687-3	620C	Total/NA	Ground Water	3005A	
480-153688-1	630B	Total/NA	Ground Water	3005A	
480-153688-2	W11-1B	Total/NA	Ground Water	3005A	
MB 480-473773/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-473773/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 474013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	3005A	
480-153786-2	106DR	Total/NA	Ground Water	3005A	
480-153786-3	106WR	Total/NA	Ground Water	3005A	
480-153786-5	W11-2E	Total/NA	Ground Water	3005A	

Metals (Continued)

Prep Batch: 474013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-6	W11-4E	Total/NA	Ground Water	3005A	
480-153786-7	W11-5B	Total/NA	Ground Water	3005A	
480-153786-8	W11-5E	Total/NA	Ground Water	3005A	
MB 480-474013/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-474013/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-153786-1 MS	106CR	Total/NA	Ground Water	3005A	
480-153786-1 MSD	106CR	Total/NA	Ground Water	3005A	

Analysis Batch: 474096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	6010C	472271
MB 480-472271/1-A	Method Blank	Total/NA	Water	6010C	472271
LCS 480-472271/2-A	Lab Control Sample	Total/NA	Water	6010C	472271

Prep Batch: 474385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	3005A	
480-153888-2	107BR	Total/NA	Ground Water	3005A	
480-153888-3	107CR	Total/NA	Ground Water	3005A	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	3005A	
480-153888-6	W11-1ER	Total/NA	Ground Water	3005A	
480-153888-7	W11-3E	Total/NA	Ground Water	3005A	
480-153888-8	W12-5E	Total/NA	Ground Water	3005A	
480-153899-1	629E	Total/NA	Ground Water	3005A	
MB 480-474385/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-474385/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 474595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	3005A	
480-153929-2	1008ER2	Total/NA	Ground Water	3005A	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	3005A	
480-153929-5	W12-4B	Total/NA	Ground Water	3005A	
480-153929-6	W12-4E	Total/NA	Ground Water	3005A	
MB 480-474595/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-474595/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 474729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	6010C	473190
480-153454-2	1041B	Total/NA	Ground Water	6010C	473190
480-153454-3	1134B	Total/NA	Ground Water	6010C	473190
480-153454-4	617A	Total/NA	Ground Water	6010C	473190
480-153454-5	617C	Total/NA	Ground Water	6010C	473190
480-153454-6	618AR	Total/NA	Ground Water	6010C	473190
480-153454-7	618CR	Total/NA	Ground Water	6010C	473190
MB 480-473190/1-A	Method Blank	Total/NA	Water	6010C	473190
LCS 480-473190/2-A	Lab Control Sample	Total/NA	Water	6010C	473190
480-153454-1 MS	1040B	Total/NA	Ground Water	6010C	473190
480-153454-1 MSD	1040B	Total/NA	Ground Water	6010C	473190

Metals

Analysis Batch: 474735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	6010C	473449
480-153523-2	630E	Total/NA	Ground Water	6010C	473449
MB 480-473449/1-A	Method Blank	Total/NA	Water	6010C	473449
LCS 480-473449/2-A	Lab Control Sample	Total/NA	Water	6010C	473449
480-153523-1 MS	629B	Total/NA	Ground Water	6010C	473449
480-153523-1 MSD	629B	Total/NA	Ground Water	6010C	473449

Analysis Batch: 474807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	6010C	473190
480-153454-2	1041B	Total/NA	Ground Water	6010C	473190
480-153454-3	1134B	Total/NA	Ground Water	6010C	473190
480-153454-4	617A	Total/NA	Ground Water	6010C	473190
MB 480-473190/1-A	Method Blank	Total/NA	Water	6010C	473190
LCS 480-473190/2-A	Lab Control Sample	Total/NA	Water	6010C	473190
480-153454-1 MS	1040B	Total/NA	Ground Water	6010C	473190
480-153454-1 MSD	1040B	Total/NA	Ground Water	6010C	473190

Analysis Batch: 475089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	6010C	474385
480-153888-2	107BR	Total/NA	Ground Water	6010C	474385
480-153888-3	107CR	Total/NA	Ground Water	6010C	474385
480-153888-4	DUP-GW-02	Total/NA	Ground Water	6010C	474385
480-153888-6	W11-1ER	Total/NA	Ground Water	6010C	474385
480-153888-7	W11-3E	Total/NA	Ground Water	6010C	474385
480-153888-8	W12-5E	Total/NA	Ground Water	6010C	474385
480-153899-1	629E	Total/NA	Ground Water	6010C	474385
MB 480-474385/1-A	Method Blank	Total/NA	Water	6010C	474385
LCS 480-474385/2-A	Lab Control Sample	Total/NA	Water	6010C	474385

Analysis Batch: 475096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	6010C	474595
480-153929-2	1008ER2	Total/NA	Ground Water	6010C	474595
480-153929-3	DUP-GW-03	Total/NA	Ground Water	6010C	474595
480-153929-5	W12-4B	Total/NA	Ground Water	6010C	474595
480-153929-6	W12-4E	Total/NA	Ground Water	6010C	474595
MB 480-474595/1-A	Method Blank	Total/NA	Water	6010C	474595
LCS 480-474595/2-A	Lab Control Sample	Total/NA	Water	6010C	474595

Analysis Batch: 475535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	6010C	474013
480-153786-2	106DR	Total/NA	Ground Water	6010C	474013
480-153786-3	106WR	Total/NA	Ground Water	6010C	474013
480-153786-5	W11-2E	Total/NA	Ground Water	6010C	474013
480-153786-6	W11-4E	Total/NA	Ground Water	6010C	474013
480-153786-7	W11-5B	Total/NA	Ground Water	6010C	474013
480-153786-8	W11-5E	Total/NA	Ground Water	6010C	474013
MB 480-474013/1-A	Method Blank	Total/NA	Water	6010C	474013

Metals (Continued)

Analysis Batch: 475535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-474013/2-A	Lab Control Sample	Total/NA	Water	6010C	474013
480-153786-1 MS	106CR	Total/NA	Ground Water	6010C	474013
480-153786-1 MSD	106CR	Total/NA	Ground Water	6010C	474013

Analysis Batch: 475547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	6010C	474385
480-153888-2	107BR	Total/NA	Ground Water	6010C	474385
480-153888-3	107CR	Total/NA	Ground Water	6010C	474385
480-153888-4	DUP-GW-02	Total/NA	Ground Water	6010C	474385
480-153888-6	W11-1ER	Total/NA	Ground Water	6010C	474385
480-153888-7	W11-3E	Total/NA	Ground Water	6010C	474385
480-153888-8	W12-5E	Total/NA	Ground Water	6010C	474385
480-153899-1	629E	Total/NA	Ground Water	6010C	474385

Analysis Batch: 475549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	6010C	474595
480-153929-2	1008ER2	Total/NA	Ground Water	6010C	474595
480-153929-3	DUP-GW-03	Total/NA	Ground Water	6010C	474595
480-153929-5	W12-4B	Total/NA	Ground Water	6010C	474595
480-153929-6	W12-4E	Total/NA	Ground Water	6010C	474595

Analysis Batch: 476247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	6010C	473773
480-153687-2	DUP-GW-01	Total/NA	Ground Water	6010C	473773
480-153687-3	620C	Total/NA	Ground Water	6010C	473773
480-153688-1	630B	Total/NA	Ground Water	6010C	473773
480-153688-2	W11-1B	Total/NA	Ground Water	6010C	473773
MB 480-473773/1-A	Method Blank	Total/NA	Water	6010C	473773
LCS 480-473773/2-A	Lab Control Sample	Total/NA	Water	6010C	473773

Prep Batch: 476458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	3005A	
480-154465-2	W12-2E	Total/NA	Water	3005A	
480-154465-3	104D	Total/NA	Water	3005A	
MB 480-476458/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-476458/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 476716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	3005A	
480-154543-2	627A	Total/NA	Ground Water	3005A	
480-154543-3	628A	Total/NA	Ground Water	3005A	
MB 480-476716/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-476716/2-A	Lab Control Sample	Total/NA	Water	3005A	

Metals

Prep Batch: 477118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	3005A	
480-154654-2	W12-3E	Total/NA	Ground Water	3005A	
MB 480-477118/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477118/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 477332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	3005A	
480-154721-3	W9-1E	Total/NA	Ground Water	3005A	
480-154721-4	W9-2E	Total/NA	Ground Water	3005A	
MB 480-477332/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477332/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 477397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	6010C	477118
480-154654-2	W12-3E	Total/NA	Ground Water	6010C	477118
MB 480-477118/1-A	Method Blank	Total/NA	Water	6010C	477118
LCS 480-477118/2-A	Lab Control Sample	Total/NA	Water	6010C	477118

Prep Batch: 477893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	3005A	
480-154908-2	310D	Total/NA	Ground Water	3005A	
480-154908-3	TRANS	Total/NA	Ground Water	3005A	
MB 480-477893/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 477951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	6010C	476458
480-154465-2	W12-2E	Total/NA	Water	6010C	476458
480-154465-3	104D	Total/NA	Water	6010C	476458
MB 480-476458/1-A	Method Blank	Total/NA	Water	6010C	476458
LCS 480-476458/2-A	Lab Control Sample	Total/NA	Water	6010C	476458

Analysis Batch: 477952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	6010C	476716
480-154543-2	627A	Total/NA	Ground Water	6010C	476716
480-154543-3	628A	Total/NA	Ground Water	6010C	476716
MB 480-476716/1-A	Method Blank	Total/NA	Water	6010C	476716
LCS 480-476716/2-A	Lab Control Sample	Total/NA	Water	6010C	476716

Analysis Batch: 478106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	6010C	476458
480-154465-2	W12-2E	Total/NA	Water	6010C	476458

Metals

Analysis Batch: 478108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	6010C	476716
MB 480-476716/1-A	Method Blank	Total/NA	Water	6010C	476716
LCS 480-476716/2-A	Lab Control Sample	Total/NA	Water	6010C	476716

Prep Batch: 478126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	3005A	
480-154949-2	624B	Total/NA	Ground Water	3005A	
MB 480-478126/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-478126/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 478451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	6010C	477893
480-154908-2	310D	Total/NA	Ground Water	6010C	477893
480-154908-3	TRANS	Total/NA	Ground Water	6010C	477893
MB 480-477893/1-A	Method Blank	Total/NA	Water	6010C	477893
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	6010C	477893

Analysis Batch: 478452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	6010C	477332
480-154721-3	W9-1E	Total/NA	Ground Water	6010C	477332
480-154721-4	W9-2E	Total/NA	Ground Water	6010C	477332
MB 480-477332/1-A	Method Blank	Total/NA	Water	6010C	477332
LCS 480-477332/2-A	Lab Control Sample	Total/NA	Water	6010C	477332

Analysis Batch: 478540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	6010C	478126
480-154949-2	624B	Total/NA	Ground Water	6010C	478126
MB 480-478126/1-A	Method Blank	Total/NA	Water	6010C	478126
LCS 480-478126/2-A	Lab Control Sample	Total/NA	Water	6010C	478126

Prep Batch: 479062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-3	104D	Total/NA	Water	3005A	
MB 480-479062/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-479062/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 479154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477893/1-A	Method Blank	Total/NA	Water	6010C	477893
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	6010C	477893

Prep Batch: 479265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-2	627A	Total/NA	Ground Water	3005A	
480-154543-3	628A	Total/NA	Ground Water	3005A	
MB 480-479265/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-479265/2-A	Lab Control Sample	Total/NA	Water	3005A	

Metals

Analysis Batch: 479417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-479062/1-A	Method Blank	Total/NA	Water	6010C	479062
LCS 480-479062/2-A	Lab Control Sample	Total/NA	Water	6010C	479062

Analysis Batch: 479669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-3	104D	Total/NA	Water	6010C	479062

Analysis Batch: 479672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-2	627A	Total/NA	Ground Water	6010C	479265
480-154543-3	628A	Total/NA	Ground Water	6010C	479265
MB 480-479265/1-A	Method Blank	Total/NA	Water	6010C	479265
LCS 480-479265/2-A	Lab Control Sample	Total/NA	Water	6010C	479265

Analysis Batch: 481596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-5	617C	Total/NA	Ground Water	6010C	473190
480-153454-6	618AR	Total/NA	Ground Water	6010C	473190
480-153454-7	618CR	Total/NA	Ground Water	6010C	473190

Analysis Batch: 484515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-3	TRANS	Total/NA	Ground Water	6020	

Prep Batch: 570866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	3010A	
480-153454-2	1041B	Total/NA	Ground Water	3010A	
480-153454-3	1134B	Total/NA	Ground Water	3010A	
480-153454-4	617A	Total/NA	Ground Water	3010A	
480-153454-5	617C	Total/NA	Ground Water	3010A	
480-153454-6	618AR	Total/NA	Ground Water	3010A	
480-153454-7	618CR	Total/NA	Ground Water	3010A	
MB 680-570866/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-570866/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 571177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	6020A	570866
480-153454-2	1041B	Total/NA	Ground Water	6020A	570866
480-153454-3	1134B	Total/NA	Ground Water	6020A	570866
480-153454-4	617A	Total/NA	Ground Water	6020A	570866
480-153454-5	617C	Total/NA	Ground Water	6020A	570866
480-153454-6	618AR	Total/NA	Ground Water	6020A	570866
480-153454-7	618CR	Total/NA	Ground Water	6020A	570866
MB 680-570866/1-A	Method Blank	Total/NA	Water	6020A	570866
LCS 680-570866/2-A	Lab Control Sample	Total/NA	Water	6020A	570866

Prep Batch: 572168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	3010A	

Metals (Continued)

Prep Batch: 572168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-572168/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-572168/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 572470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	6020A	572168
MB 680-572168/1-A	Method Blank	Total/NA	Water	6020A	572168
LCS 680-572168/2-A	Lab Control Sample	Total/NA	Water	6020A	572168

Prep Batch: 572483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	3010A	
480-153888-3	107CR	Total/NA	Ground Water	3010A	
480-153888-7	W11-3E	Total/NA	Ground Water	3010A	
480-153929-1	1008BR2	Total/NA	Ground Water	3010A	
480-153929-2	1008ER2	Total/NA	Ground Water	3010A	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	3010A	
480-153929-5	W12-4B	Total/NA	Ground Water	3010A	
480-153929-6	W12-4E	Total/NA	Ground Water	3010A	
MB 680-572483/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-572483/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 572518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	3010A	
480-153523-2	630E	Total/NA	Ground Water	3010A	
480-153687-1	620A	Total/NA	Ground Water	3010A	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	3010A	
480-153687-3	620C	Total/NA	Ground Water	3010A	
480-153688-1	630B	Total/NA	Ground Water	3010A	
480-153688-2	W11-1B	Total/NA	Ground Water	3010A	
480-153786-2	106DR	Total/NA	Ground Water	3010A	
480-153786-6	W11-4E	Total/NA	Ground Water	3010A	
480-153786-8	W11-5E	Total/NA	Ground Water	3010A	
MB 680-572518/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-572518/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 572722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-3	106WR	Total/NA	Ground Water	3010A	
480-153786-5	W11-2E	Total/NA	Ground Water	3010A	
480-153786-7	W11-5B	Total/NA	Ground Water	3010A	
480-153899-1	629E	Total/NA	Ground Water	3010A	
MB 680-572722/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-572722/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 572782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	3010A	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	3010A	
480-153888-6	W11-1ER	Total/NA	Ground Water	3010A	

Metals (Continued)

Prep Batch: 572782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-8	W12-5E	Total/NA	Ground Water	3010A	
MB 680-572782/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-572782/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 572905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	6020A	572518
480-153523-2	630E	Total/NA	Ground Water	6020A	572518
480-153687-1	620A	Total/NA	Ground Water	6020A	572518
480-153687-2	DUP-GW-01	Total/NA	Ground Water	6020A	572518
480-153687-3	620C	Total/NA	Ground Water	6020A	572518
480-153688-1	630B	Total/NA	Ground Water	6020A	572518
480-153688-2	W11-1B	Total/NA	Ground Water	6020A	572518
480-153786-2	106DR	Total/NA	Ground Water	6020A	572518
480-153786-6	W11-4E	Total/NA	Ground Water	6020A	572518
480-153786-8	W11-5E	Total/NA	Ground Water	6020A	572518
480-153888-1	101C	Total/NA	Ground Water	6020A	572483
480-153888-3	107CR	Total/NA	Ground Water	6020A	572483
480-153888-7	W11-3E	Total/NA	Ground Water	6020A	572483
480-153929-1	1008BR2	Total/NA	Ground Water	6020A	572483
480-153929-2	1008ER2	Total/NA	Ground Water	6020A	572483
480-153929-3	DUP-GW-03	Total/NA	Ground Water	6020A	572483
480-153929-5	W12-4B	Total/NA	Ground Water	6020A	572483
480-153929-6	W12-4E	Total/NA	Ground Water	6020A	572483
MB 680-572483/1-A	Method Blank	Total/NA	Water	6020A	572483
MB 680-572518/1-A	Method Blank	Total/NA	Water	6020A	572518
LCS 680-572483/2-A	Lab Control Sample	Total/NA	Water	6020A	572483
LCS 680-572518/2-A	Lab Control Sample	Total/NA	Water	6020A	572518

Analysis Batch: 572945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-3	106WR	Total/NA	Ground Water	6020A	572722
480-153786-5	W11-2E	Total/NA	Ground Water	6020A	572722
480-153786-7	W11-5B	Total/NA	Ground Water	6020A	572722
480-153899-1	629E	Total/NA	Ground Water	6020A	572722
MB 680-572722/1-A	Method Blank	Total/NA	Water	6020A	572722
LCS 680-572722/2-A	Lab Control Sample	Total/NA	Water	6020A	572722

Analysis Batch: 573404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	6020A	572782
480-153888-4	DUP-GW-02	Total/NA	Ground Water	6020A	572782
480-153888-6	W11-1ER	Total/NA	Ground Water	6020A	572782
480-153888-8	W12-5E	Total/NA	Ground Water	6020A	572782
MB 680-572782/1-A	Method Blank	Total/NA	Water	6020A	572782
LCS 680-572782/2-A	Lab Control Sample	Total/NA	Water	6020A	572782

Prep Batch: 573803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	3010A	
480-154465-2	W12-2E	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 573803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-3	104D	Total/NA	Water	3010A	
MB 680-573803/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-573803/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 574144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	3010A	
480-154543-2	627A	Total/NA	Ground Water	3010A	
480-154543-3	628A	Total/NA	Ground Water	3010A	
480-154654-1	DUP-GW-04	Total/NA	Ground Water	3010A	
480-154654-2	W12-3E	Total/NA	Ground Water	3010A	
MB 680-574144/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-574144/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-154543-3 MS	628A	Total/NA	Ground Water	3010A	
480-154543-3 MSD	628A	Total/NA	Ground Water	3010A	

Prep Batch: 574205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	3010A	
480-154721-3	W9-1E	Total/NA	Ground Water	3010A	
480-154721-4	W9-2E	Total/NA	Ground Water	3010A	
MB 680-574205/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 574497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	6020A	573803
480-154465-2	W12-2E	Total/NA	Water	6020A	573803
480-154465-3	104D	Total/NA	Water	6020A	573803
MB 680-573803/1-A	Method Blank	Total/NA	Water	6020A	573803
LCS 680-573803/2-A	Lab Control Sample	Total/NA	Water	6020A	573803

Prep Batch: 574886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	3010A	
480-154949-2	624B	Total/NA	Ground Water	3010A	
MB 680-574886/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-574886/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 575051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	6020A	574144
480-154543-2	627A	Total/NA	Ground Water	6020A	574144
480-154543-3	628A	Total/NA	Ground Water	6020A	574144
480-154654-1	DUP-GW-04	Total/NA	Ground Water	6020A	574144
480-154654-2	W12-3E	Total/NA	Ground Water	6020A	574144
MB 680-574144/1-A	Method Blank	Total/NA	Water	6020A	574144
LCS 680-574144/2-A	Lab Control Sample	Total/NA	Water	6020A	574144
480-154543-3 MS	628A	Total/NA	Ground Water	6020A	574144
480-154543-3 MSD	628A	Total/NA	Ground Water	6020A	574144

Metals

Analysis Batch: 575407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	6020A	574205
480-154721-3	W9-1E	Total/NA	Ground Water	6020A	574205
480-154721-4	W9-2E	Total/NA	Ground Water	6020A	574205
MB 680-574205/1-A	Method Blank	Total/NA	Water	6020A	574205

Analysis Batch: 575573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	6020A	574886
480-154949-2	624B	Total/NA	Ground Water	6020A	574886
MB 680-574886/1-A	Method Blank	Total/NA	Water	6020A	574886
LCS 680-574886/2-A	Lab Control Sample	Total/NA	Water	6020A	574886

Prep Batch: 575770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	3010A	
480-154908-2	310D	Total/NA	Ground Water	3010A	
480-154908-3	TRANS	Total/NA	Ground Water	3010A	
MB 680-575770/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-575770/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 575980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	6020A	575770
480-154908-2	310D	Total/NA	Ground Water	6020A	575770
480-154908-3	TRANS	Total/NA	Ground Water	6020A	575770
MB 680-575770/1-A	Method Blank	Total/NA	Water	6020A	575770
LCS 680-575770/2-A	Lab Control Sample	Total/NA	Water	6020A	575770

Prep Batch: 576996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	3010A	
MB 680-576996/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-576996/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 577388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	6020A	576996
MB 680-576996/1-A	Method Blank	Total/NA	Water	6020A	576996
LCS 680-576996/2-A	Lab Control Sample	Total/NA	Water	6020A	576996

General Chemistry

Analysis Batch: 471236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	353.2	

Analysis Batch: 472095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	SM 2540D	
MB 480-472095/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-472095/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 472279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	SM 2540C	
MB 480-472279/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-472279/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 472870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	353.2	
480-153454-2	1041B	Total/NA	Ground Water	353.2	
480-153454-3	1134B	Total/NA	Ground Water	353.2	
480-153454-4	617A	Total/NA	Ground Water	353.2	
480-153454-5	617C	Total/NA	Ground Water	353.2	
480-153454-6	618AR	Total/NA	Ground Water	353.2	
480-153454-7	618CR	Total/NA	Ground Water	353.2	

Analysis Batch: 473080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	353.2	
480-153523-2	630E	Total/NA	Ground Water	353.2	

Analysis Batch: 473397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	SM 2540C	
480-153454-2	1041B	Total/NA	Ground Water	SM 2540C	
480-153454-3	1134B	Total/NA	Ground Water	SM 2540C	
480-153454-4	617A	Total/NA	Ground Water	SM 2540C	
480-153454-5	617C	Total/NA	Ground Water	SM 2540C	
480-153454-6	618AR	Total/NA	Ground Water	SM 2540C	
480-153454-7	618CR	Total/NA	Ground Water	SM 2540C	
MB 480-473397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-473397/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 473544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	353.2	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	353.2	
480-153687-3	620C	Total/NA	Ground Water	353.2	
480-153688-1	630B	Total/NA	Ground Water	353.2	
480-153688-2	W11-1B	Total/NA	Ground Water	353.2	

Analysis Batch: 473606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	310.2	
MB 480-473606/12	Method Blank	Total/NA	Water	310.2	
MB 480-473606/23	Method Blank	Total/NA	Water	310.2	
LCS 480-473606/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-473606/24	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 473747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	SM 2540D	
480-153454-2	1041B	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 473747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-3	1134B	Total/NA	Ground Water	SM 2540D	
480-153454-4	617A	Total/NA	Ground Water	SM 2540D	
480-153454-5	617C	Total/NA	Ground Water	SM 2540D	
480-153454-6	618AR	Total/NA	Ground Water	SM 2540D	
480-153454-7	618CR	Total/NA	Ground Water	SM 2540D	
MB 480-473747/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-473747/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153454-6 DU	618AR	Total/NA	Ground Water	SM 2540D	
480-153454-7 DU	618CR	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 473951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	SM 2540D	
480-153523-2	630E	Total/NA	Ground Water	SM 2540D	
MB 480-473951/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-473951/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153523-1 DU	629B	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 473988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	SM 2540C	
480-153523-2	630E	Total/NA	Ground Water	SM 2540C	
MB 480-473988/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-473988/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 474143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	353.2	
480-153786-2	106DR	Total/NA	Ground Water	353.2	
480-153786-3	106WR	Total/NA	Ground Water	353.2	
480-153786-5	W11-2E	Total/NA	Ground Water	353.2	
480-153786-6	W11-4E	Total/NA	Ground Water	353.2	
480-153786-7	W11-5B	Total/NA	Ground Water	353.2	
480-153786-8	W11-5E	Total/NA	Ground Water	353.2	

Analysis Batch: 474260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	SM 2540C	
MB 480-474260/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474260/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153899-1 DU	629E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 474278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	353.2	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	353.2	
480-153888-6	W11-1ER	Total/NA	Ground Water	353.2	
480-153888-7	W11-3E	Total/NA	Ground Water	353.2	
480-153899-1	629E	Total/NA	Ground Water	353.2	

General Chemistry

Analysis Batch: 474333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	310.2	
480-153454-2	1041B	Total/NA	Ground Water	310.2	
480-153454-3	1134B	Total/NA	Ground Water	310.2	
480-153454-4	617A	Total/NA	Ground Water	310.2	
480-153454-5	617C	Total/NA	Ground Water	310.2	
480-153454-6	618AR	Total/NA	Ground Water	310.2	
480-153454-7	618CR	Total/NA	Ground Water	310.2	
MB 480-474333/105	Method Blank	Total/NA	Water	310.2	
MB 480-474333/149	Method Blank	Total/NA	Water	310.2	
MB 480-474333/157	Method Blank	Total/NA	Water	310.2	
MB 480-474333/44	Method Blank	Total/NA	Water	310.2	
MB 480-474333/64	Method Blank	Total/NA	Water	310.2	
MB 480-474333/84	Method Blank	Total/NA	Water	310.2	
LCS 480-474333/106	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-474333/150	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-474333/158	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-474333/45	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-474333/65	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-474333/85	Lab Control Sample	Total/NA	Water	310.2	
480-153454-1 MS	1040B	Total/NA	Ground Water	310.2	
480-153454-1 MSD	1040B	Total/NA	Ground Water	310.2	

Analysis Batch: 474334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	9251	
480-153454-3	1134B	Total/NA	Ground Water	9251	
480-153454-4	617A	Total/NA	Ground Water	9251	
480-153454-5	617C	Total/NA	Ground Water	9251	
480-153454-6	618AR	Total/NA	Ground Water	9251	
480-153454-7	618CR	Total/NA	Ground Water	9251	
MB 480-474334/142	Method Blank	Total/NA	Water	9251	
MB 480-474334/154	Method Blank	Total/NA	Water	9251	
LCS 480-474334/143	Lab Control Sample	Total/NA	Water	9251	
LCS 480-474334/155	Lab Control Sample	Total/NA	Water	9251	
480-153454-1 MS	1040B	Total/NA	Ground Water	9251	
480-153454-1 MSD	1040B	Total/NA	Ground Water	9251	

Analysis Batch: 474362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	353.2	
480-153888-3	107CR	Total/NA	Ground Water	353.2	
480-153888-8	W12-5E	Total/NA	Ground Water	353.2	

Analysis Batch: 474408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	350.1	
MB 480-474408/27	Method Blank	Total/NA	Water	350.1	
MB 480-474408/3	Method Blank	Total/NA	Water	350.1	
LCS 480-474408/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-474408/4	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry

Analysis Batch: 474460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-2	DUP-GW-01	Total/NA	Ground Water	SM 2540C	
480-153687-3	620C	Total/NA	Ground Water	SM 2540C	
480-153688-1	630B	Total/NA	Ground Water	SM 2540C	
MB 480-474460/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474460/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153687-3 DU	620C	Total/NA	Ground Water	SM 2540C	
480-153688-1 DU	630B	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 474466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153688-2	W11-1B	Total/NA	Ground Water	SM 2540C	
MB 480-474466/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474466/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153688-2 DU	W11-1B	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 474487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	SM 2540D	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	SM 2540D	
480-153687-3	620C	Total/NA	Ground Water	SM 2540D	
480-153688-1	630B	Total/NA	Ground Water	SM 2540D	
480-153688-2	W11-1B	Total/NA	Ground Water	SM 2540D	
480-153899-1	629E	Total/NA	Ground Water	SM 2540D	
MB 480-474487/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-474487/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153687-1 DU	620A	Total/NA	Ground Water	SM 2540D	
480-153687-2 DU	DUP-GW-01	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 474514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	353.2	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	353.2	
480-153929-6	W12-4E	Total/NA	Ground Water	353.2	

Analysis Batch: 474515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-2	1008ER2	Total/NA	Ground Water	353.2	
480-153929-5	W12-4B	Total/NA	Ground Water	353.2	

Analysis Batch: 474623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	SM 2540D	
480-153888-2	107BR	Total/NA	Ground Water	SM 2540D	
480-153888-3	107CR	Total/NA	Ground Water	SM 2540D	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	SM 2540D	
480-153888-6	W11-1ER	Total/NA	Ground Water	SM 2540D	
480-153888-7	W11-3E	Total/NA	Ground Water	SM 2540D	
480-153888-8	W12-5E	Total/NA	Ground Water	SM 2540D	
MB 480-474623/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-474623/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153888-3 DU	107CR	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 474623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-4 DU	DUP-GW-02	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 474650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	SM 2540D	
480-153786-2	106DR	Total/NA	Ground Water	SM 2540D	
480-153786-3	106WR	Total/NA	Ground Water	SM 2540D	
480-153786-5	W11-2E	Total/NA	Ground Water	SM 2540D	
480-153786-6	W11-4E	Total/NA	Ground Water	SM 2540D	
480-153786-7	W11-5B	Total/NA	Ground Water	SM 2540D	
480-153786-8	W11-5E	Total/NA	Ground Water	SM 2540D	
MB 480-474650/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-474650/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153786-1 DU	106CR	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 474715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	SM 2540C	
480-153786-2	106DR	Total/NA	Ground Water	SM 2540C	
480-153786-3	106WR	Total/NA	Ground Water	SM 2540C	
480-153786-5	W11-2E	Total/NA	Ground Water	SM 2540C	
480-153786-6	W11-4E	Total/NA	Ground Water	SM 2540C	
480-153786-7	W11-5B	Total/NA	Ground Water	SM 2540C	
480-153786-8	W11-5E	Total/NA	Ground Water	SM 2540C	
MB 480-474715/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474715/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 474901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	SM 2540C	
MB 480-474901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474901/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153888-1 DU	101C	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 474902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	SM 2540C	
480-153888-3	107CR	Total/NA	Ground Water	SM 2540C	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	SM 2540C	
480-153888-6	W11-1ER	Total/NA	Ground Water	SM 2540C	
480-153888-7	W11-3E	Total/NA	Ground Water	SM 2540C	
480-153888-8	W12-5E	Total/NA	Ground Water	SM 2540C	
MB 480-474902/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474902/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153888-3 DU	107CR	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 475032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	SM 2540C	
MB 480-475032/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-475032/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 475032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1 DU	1008BR2	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 475078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-3	DUP-GW-03	Total/NA	Ground Water	SM 2540C	
480-153929-5	W12-4B	Total/NA	Ground Water	SM 2540C	
480-153929-6	W12-4E	Total/NA	Ground Water	SM 2540C	
MB 480-475078/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-475078/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 475126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	SM 2540D	
480-153929-2	1008ER2	Total/NA	Ground Water	SM 2540D	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	SM 2540D	
480-153929-5	W12-4B	Total/NA	Ground Water	SM 2540D	
480-153929-6	W12-4E	Total/NA	Ground Water	SM 2540D	
MB 480-475126/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-475126/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153929-1 DU	1008BR2	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 475272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	9251	
MB 480-475272/45	Method Blank	Total/NA	Water	9251	
LCS 480-475272/46	Lab Control Sample	Total/NA	Water	9251	
480-152997-1 MS	W11-6E	Total/NA	Ground Water	9251	
480-152997-1 MSD	W11-6E	Total/NA	Ground Water	9251	

Analysis Batch: 475273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	310.2	
480-153523-2	630E	Total/NA	Ground Water	310.2	
480-153899-1	629E	Total/NA	Ground Water	310.2	
MB 480-475273/158	Method Blank	Total/NA	Water	310.2	
MB 480-475273/173	Method Blank	Total/NA	Water	310.2	
MB 480-475273/46	Method Blank	Total/NA	Water	310.2	
MB 480-475273/71	Method Blank	Total/NA	Water	310.2	
LCS 480-475273/159	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475273/174	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475273/47	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475273/72	Lab Control Sample	Total/NA	Water	310.2	
480-153899-1 MS	629E	Total/NA	Ground Water	310.2	

Analysis Batch: 475406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	350.1	
480-153454-2	1041B	Total/NA	Ground Water	350.1	
480-153454-3	1134B	Total/NA	Ground Water	350.1	
480-153454-4	617A	Total/NA	Ground Water	350.1	
480-153454-5	617C	Total/NA	Ground Water	350.1	

General Chemistry (Continued)

Analysis Batch: 475406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-6	618AR	Total/NA	Ground Water	350.1	
480-153454-7	618CR	Total/NA	Ground Water	350.1	
480-153523-1	629B	Total/NA	Ground Water	350.1	
480-153523-2	630E	Total/NA	Ground Water	350.1	
MB 480-475406/147	Method Blank	Total/NA	Water	350.1	
MB 480-475406/3	Method Blank	Total/NA	Water	350.1	
MB 480-475406/75	Method Blank	Total/NA	Water	350.1	
LCS 480-475406/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475406/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475406/76	Lab Control Sample	Total/NA	Water	350.1	
480-153454-5 MS	617C	Total/NA	Ground Water	350.1	
480-153454-5 DU	617C	Total/NA	Ground Water	350.1	

Analysis Batch: 475409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	310.2	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	310.2	
480-153687-3	620C	Total/NA	Ground Water	310.2	
480-153688-1	630B	Total/NA	Ground Water	310.2	
480-153688-2	W11-1B	Total/NA	Ground Water	310.2	
MB 480-475409/12	Method Blank	Total/NA	Water	310.2	
MB 480-475409/35	Method Blank	Total/NA	Water	310.2	
MB 480-475409/44	Method Blank	Total/NA	Water	310.2	
MB 480-475409/79	Method Blank	Total/NA	Water	310.2	
LCS 480-475409/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/36	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/45	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/80	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 475668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	SM 5310C	
MB 480-475668/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-475668/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 475783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	310.2	
480-153786-2	106DR	Total/NA	Ground Water	310.2	
480-153786-3	106WR	Total/NA	Ground Water	310.2	
480-153786-5	W11-2E	Total/NA	Ground Water	310.2	
480-153786-6	W11-4E	Total/NA	Ground Water	310.2	
480-153786-7	W11-5B	Total/NA	Ground Water	310.2	
480-153786-8	W11-5E	Total/NA	Ground Water	310.2	
480-153888-2	107BR	Total/NA	Ground Water	310.2	
480-153888-3	107CR	Total/NA	Ground Water	310.2	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	310.2	
480-153888-6	W11-1ER	Total/NA	Ground Water	310.2	
480-153888-7	W11-3E	Total/NA	Ground Water	310.2	
480-153888-8	W12-5E	Total/NA	Ground Water	310.2	
MB 480-475783/100	Method Blank	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 475783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-475783/20	Method Blank	Total/NA	Water	310.2	
MB 480-475783/29	Method Blank	Total/NA	Water	310.2	
MB 480-475783/41	Method Blank	Total/NA	Water	310.2	
MB 480-475783/50	Method Blank	Total/NA	Water	310.2	
MB 480-475783/76	Method Blank	Total/NA	Water	310.2	
LCS 480-475783/101	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/30	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/42	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/51	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/77	Lab Control Sample	Total/NA	Water	310.2	
480-153888-4 MS	DUP-GW-02	Total/NA	Ground Water	310.2	
480-153888-6 DU	W11-1ER	Total/NA	Ground Water	310.2	

Analysis Batch: 475869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	9038	
MB 480-475869/44	Method Blank	Total/NA	Water	9038	
MB 480-475869/61	Method Blank	Total/NA	Water	9038	
LCS 480-475869/43	Lab Control Sample	Total/NA	Water	9038	
LCS 480-475869/60	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 475876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	350.1	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	350.1	
480-153687-3	620C	Total/NA	Ground Water	350.1	
MB 480-475876/147	Method Blank	Total/NA	Water	350.1	
MB 480-475876/3	Method Blank	Total/NA	Water	350.1	
MB 480-475876/51	Method Blank	Total/NA	Water	350.1	
LCS 480-475876/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475876/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475876/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 476012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	SM 5310C	
480-153454-3	1134B	Total/NA	Ground Water	SM 5310C	
480-153454-4	617A	Total/NA	Ground Water	SM 5310C	
480-153454-5	617C	Total/NA	Ground Water	SM 5310C	
480-153454-7	618CR	Total/NA	Ground Water	SM 5310C	
MB 480-476012/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-476012/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-476012/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-476012/53	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 476102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-2	1041B	Total/NA	Ground Water	410.4	
480-153454-4	617A	Total/NA	Ground Water	410.4	
480-153454-6	618AR	Total/NA	Ground Water	410.4	

General Chemistry (Continued)

Analysis Batch: 476102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	410.4	
MB 480-476102/3	Method Blank	Total/NA	Water	410.4	
MB 480-476102/75	Method Blank	Total/NA	Water	410.4	
LCS 480-476102/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-476102/76	Lab Control Sample	Total/NA	Water	410.4	
480-153454-2 MS	1041B	Total/NA	Ground Water	410.4	

Analysis Batch: 476103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153688-2	W11-1B	Total/NA	Ground Water	350.1	
MB 480-476103/3	Method Blank	Total/NA	Water	350.1	
MB 480-476103/75	Method Blank	Total/NA	Water	350.1	
LCS 480-476103/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-476103/76	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 476116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153688-1	630B	Total/NA	Ground Water	350.1	
MB 480-476116/3	Method Blank	Total/NA	Water	350.1	
LCS 480-476116/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 476179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	310.2	
480-153929-2	1008ER2	Total/NA	Ground Water	310.2	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	310.2	
480-153929-5	W12-4B	Total/NA	Ground Water	310.2	
MB 480-476179/22	Method Blank	Total/NA	Water	310.2	
MB 480-476179/28	Method Blank	Total/NA	Water	310.2	
MB 480-476179/3	Method Blank	Total/NA	Water	310.2	
MB 480-476179/48	Method Blank	Total/NA	Water	310.2	
LCS 480-476179/23	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-476179/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-476179/4	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-476179/49	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 476246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-5	617C	Total/NA	Ground Water	410.4	
MB 480-476246/27	Method Blank	Total/NA	Water	410.4	
MB 480-476246/3	Method Blank	Total/NA	Water	410.4	
LCS 480-476246/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-476246/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 476398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-3	104D	Total/NA	Water	353.2	

Analysis Batch: 476399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 476399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-2	W12-2E	Total/NA	Water	353.2	

Analysis Batch: 476467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	SM 2540C	
MB 480-476467/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-476467/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 476540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	410.4	
480-153688-1	630B	Total/NA	Ground Water	410.4	
MB 480-476540/27	Method Blank	Total/NA	Water	410.4	
MB 480-476540/3	Method Blank	Total/NA	Water	410.4	
LCS 480-476540/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-476540/4	Lab Control Sample	Total/NA	Water	410.4	
480-153687-1 MS	620A	Total/NA	Ground Water	410.4	
480-153688-1 MS	630B	Total/NA	Ground Water	410.4	
480-153687-1 DU	620A	Total/NA	Ground Water	410.4	

Analysis Batch: 476550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-2	1041B	Total/NA	Ground Water	SM 5310C	
480-153454-6	618AR	Total/NA	Ground Water	SM 5310C	
MB 480-476550/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-476550/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 476610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-2	1041B	Total/NA	Ground Water	9251	
480-153523-1	629B	Total/NA	Ground Water	9251	
480-153888-1	101C	Total/NA	Ground Water	9251	
MB 480-476610/12	Method Blank	Total/NA	Water	9251	
MB 480-476610/35	Method Blank	Total/NA	Water	9251	
MB 480-476610/47	Method Blank	Total/NA	Water	9251	
MB 480-476610/99	Method Blank	Total/NA	Water	9251	
LCS 480-476610/100	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476610/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476610/36	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476610/48	Lab Control Sample	Total/NA	Water	9251	
480-153888-1 MS	101C	Total/NA	Ground Water	9251	
480-153888-1 MSD	101C	Total/NA	Ground Water	9251	

Analysis Batch: 476619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	SM 5310C	
480-153523-2	630E	Total/NA	Ground Water	SM 5310C	
MB 480-476619/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-476619/53	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 476622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	353.2	
480-154543-2	627A	Total/NA	Ground Water	353.2	

Analysis Batch: 476623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-3	628A	Total/NA	Ground Water	353.2	

Analysis Batch: 476753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	SM 5310C	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	SM 5310C	
480-153687-3	620C	Total/NA	Ground Water	SM 5310C	
480-153688-1	630B	Total/NA	Ground Water	SM 5310C	
480-153688-2	W11-1B	Total/NA	Ground Water	SM 5310C	
MB 480-476753/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-476753/53	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 476880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	353.2	
480-154654-2	W12-3E	Total/NA	Ground Water	353.2	

Analysis Batch: 476956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	9251	
MB 480-476956/136	Method Blank	Total/NA	Water	9251	
MB 480-476956/156	Method Blank	Total/NA	Water	9251	
MB 480-476956/166	Method Blank	Total/NA	Water	9251	
LCS 480-476956/137	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476956/157	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476956/167	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 476957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	310.2	
480-153929-6	W12-4E	Total/NA	Ground Water	310.2	
MB 480-476957/19	Method Blank	Total/NA	Water	310.2	
MB 480-476957/29	Method Blank	Total/NA	Water	310.2	
LCS 480-476957/20	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-476957/30	Lab Control Sample	Total/NA	Water	310.2	
480-153888-1 MS	101C	Total/NA	Ground Water	310.2	
480-153929-6 DU	W12-4E	Total/NA	Ground Water	310.2	

Analysis Batch: 476976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	SM 2540C	
480-154465-2	W12-2E	Total/NA	Water	SM 2540C	
480-154465-3	104D	Total/NA	Water	SM 2540C	
MB 480-476976/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-476976/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 477001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-2	106DR	Total/NA	Ground Water	350.1	
480-153786-3	106WR	Total/NA	Ground Water	350.1	
480-153786-5	W11-2E	Total/NA	Ground Water	350.1	
480-153786-6	W11-4E	Total/NA	Ground Water	350.1	
480-153786-7	W11-5B	Total/NA	Ground Water	350.1	
480-153786-8	W11-5E	Total/NA	Ground Water	350.1	
480-153888-1	101C	Total/NA	Ground Water	350.1	
480-153888-2	107BR	Total/NA	Ground Water	350.1	
480-153888-3	107CR	Total/NA	Ground Water	350.1	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	350.1	
480-153888-6	W11-1ER	Total/NA	Ground Water	350.1	
480-153888-7	W11-3E	Total/NA	Ground Water	350.1	
480-153888-8	W12-5E	Total/NA	Ground Water	350.1	
480-153899-1	629E	Total/NA	Ground Water	350.1	
MB 480-477001/27	Method Blank	Total/NA	Water	350.1	
MB 480-477001/3	Method Blank	Total/NA	Water	350.1	
MB 480-477001/51	Method Blank	Total/NA	Water	350.1	
LCS 480-477001/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477001/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477001/52	Lab Control Sample	Total/NA	Water	350.1	
480-153786-5 MS	W11-2E	Total/NA	Ground Water	350.1	

Analysis Batch: 477009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	9038	
480-153454-2	1041B	Total/NA	Ground Water	9038	
480-153454-3	1134B	Total/NA	Ground Water	9038	
480-153454-4	617A	Total/NA	Ground Water	9038	
480-153454-5	617C	Total/NA	Ground Water	9038	
480-153454-6	618AR	Total/NA	Ground Water	9038	
480-153454-7	618CR	Total/NA	Ground Water	9038	
MB 480-477009/32	Method Blank	Total/NA	Water	9038	
MB 480-477009/65	Method Blank	Total/NA	Water	9038	
LCS 480-477009/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477009/64	Lab Control Sample	Total/NA	Water	9038	
480-153454-1 MS	1040B	Total/NA	Ground Water	9038	
480-153454-1 MSD	1040B	Total/NA	Ground Water	9038	
480-153454-3 MS	1134B	Total/NA	Ground Water	9038	
480-153454-3 MSD	1134B	Total/NA	Ground Water	9038	

Analysis Batch: 477015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477015/27	Method Blank	Total/NA	Water	350.1	
MB 480-477015/3	Method Blank	Total/NA	Water	350.1	
LCS 480-477015/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477015/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 477032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-2	W12-2E	Total/NA	Water	SM 2540D	
480-154465-3	104D	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 477032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477032/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-477032/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 477115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	9038	
480-153523-2	630E	Total/NA	Ground Water	9038	
MB 480-477115/12	Method Blank	Total/NA	Water	9038	
MB 480-477115/58	Method Blank	Total/NA	Water	9038	
LCS 480-477115/11	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477115/57	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 477117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	9038	
MB 480-477117/50	Method Blank	Total/NA	Water	9038	
LCS 480-477117/49	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 477199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	350.1	
MB 480-477199/123	Method Blank	Total/NA	Water	350.1	
MB 480-477199/147	Method Blank	Total/NA	Water	350.1	
MB 480-477199/27	Method Blank	Total/NA	Water	350.1	
LCS 480-477199/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477199/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477199/28	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 477220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-2	DUP-GW-01	Total/NA	Ground Water	410.4	
MB 480-477220/27	Method Blank	Total/NA	Water	410.4	
LCS 480-477220/28	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 477241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	SM 2540C	
480-154543-2	627A	Total/NA	Ground Water	SM 2540C	
MB 480-477241/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-477241/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154543-1 DU	626B	Total/NA	Ground Water	SM 2540C	
480-154543-2 DU	627A	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 477257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-2	1008ER2	Total/NA	Ground Water	350.1	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	350.1	
480-153929-5	W12-4B	Total/NA	Ground Water	350.1	
MB 480-477257/3	Method Blank	Total/NA	Water	350.1	
LCS 480-477257/4	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry

Analysis Batch: 477310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	353.2	
480-154721-3	W9-1E	Total/NA	Ground Water	353.2	
480-154721-4	W9-2E	Total/NA	Ground Water	353.2	

Analysis Batch: 477345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-3	628A	Total/NA	Ground Water	SM 2540C	
MB 480-477345/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-477345/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154543-3 DU	628A	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 477359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-2	630E	Total/NA	Ground Water	9251	
MB 480-477359/12	Method Blank	Total/NA	Water	9251	
MB 480-477359/34	Method Blank	Total/NA	Water	9251	
LCS 480-477359/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-477359/35	Lab Control Sample	Total/NA	Water	9251	
480-153523-2 MS	630E	Total/NA	Ground Water	9251	
480-153523-2 MSD	630E	Total/NA	Ground Water	9251	

Analysis Batch: 477387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	SM 2540D	
480-154543-2	627A	Total/NA	Ground Water	SM 2540D	
480-154543-3	628A	Total/NA	Ground Water	SM 2540D	
MB 480-477387/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-477387/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154543-3 DU	628A	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 477411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	350.1	
480-153929-6	W12-4E	Total/NA	Ground Water	350.1	
MB 480-477411/123	Method Blank	Total/NA	Water	350.1	
MB 480-477411/3	Method Blank	Total/NA	Water	350.1	
MB 480-477411/75	Method Blank	Total/NA	Water	350.1	
LCS 480-477411/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477411/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477411/76	Lab Control Sample	Total/NA	Water	350.1	
480-153929-1 MS	1008BR2	Total/NA	Ground Water	350.1	

Analysis Batch: 477495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	SM 5310C	
MB 480-477495/75	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-477495/76	Lab Control Sample	Total/NA	Water	SM 5310C	

Leach Batch: 477522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477522/1-A	Method Blank	Total/NA	Water	D3987-85	

General Chemistry

Analysis Batch: 477568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	SM 2540D	
480-154654-1	DUP-GW-04	Total/NA	Ground Water	SM 2540D	
MB 480-477568/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-477568/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154465-1 DU	W12-1B	Total/NA	Water	SM 2540D	

Analysis Batch: 477629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	SM 2540C	
480-154654-2	W12-3E	Total/NA	Ground Water	SM 2540C	
480-154721-1	104C	Total/NA	Ground Water	SM 2540C	
480-154721-3	W9-1E	Total/NA	Ground Water	SM 2540C	
480-154721-4	W9-2E	Total/NA	Ground Water	SM 2540C	
MB 480-477629/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-477629/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154721-1 DU	104C	Total/NA	Ground Water	SM 2540C	
480-154721-4 DU	W9-2E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 477659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-2	1008ER2	Total/NA	Ground Water	SM 2540C	
MB 480-477659/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-477659/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153929-2 DU	1008ER2	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 477709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	9038	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	9038	
480-153687-3	620C	Total/NA	Ground Water	9038	
480-153688-1	630B	Total/NA	Ground Water	9038	
480-153688-2	W11-1B	Total/NA	Ground Water	9038	
MB 480-477709/12	Method Blank	Total/NA	Water	9038	
MB 480-477709/36	Method Blank	Total/NA	Water	9038	
LCS 480-477709/11	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477709/35	Lab Control Sample	Total/NA	Water	9038	
480-153687-1 MS	620A	Total/NA	Ground Water	9038	
480-153687-1 MSD	620A	Total/NA	Ground Water	9038	
480-153687-2 MS	DUP-GW-01	Total/NA	Ground Water	9038	
480-153687-2 MSD	DUP-GW-01	Total/NA	Ground Water	9038	

Analysis Batch: 477716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	SM 5310C	
480-153786-2	106DR	Total/NA	Ground Water	SM 5310C	
480-153786-3	106WR	Total/NA	Ground Water	SM 5310C	
480-153786-5	W11-2E	Total/NA	Ground Water	SM 5310C	
480-153786-6	W11-4E	Total/NA	Ground Water	SM 5310C	
480-153786-7	W11-5B	Total/NA	Ground Water	SM 5310C	
480-153786-8	W11-5E	Total/NA	Ground Water	SM 5310C	
MB 480-477716/27	Method Blank	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 477716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-477716/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 477828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	SM 2540D	
480-154721-3	W9-1E	Total/NA	Ground Water	SM 2540D	
480-154721-4	W9-2E	Total/NA	Ground Water	SM 2540D	
MB 480-477828/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-477828/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154721-1 DU	104C	Total/NA	Ground Water	SM 2540D	
480-154721-3 DU	W9-1E	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 477854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	410.4	
480-153786-3	106WR	Total/NA	Ground Water	410.4	
MB 480-477854/27	Method Blank	Total/NA	Water	410.4	
MB 480-477854/3	Method Blank	Total/NA	Water	410.4	
MB 480-477854/51	Method Blank	Total/NA	Water	410.4	
LCS 480-477854/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-477854/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-477854/52	Lab Control Sample	Total/NA	Water	410.4	
480-153786-1 MS	106CR	Total/NA	Ground Water	410.4	
480-153786-3 MS	106WR	Total/NA	Ground Water	410.4	

Analysis Batch: 477920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-3	TRANS	Total/NA	Ground Water	353.2	
MB 480-477920/27	Method Blank	Total/NA	Water	353.2	
LCS 480-477920/28	Lab Control Sample	Total/NA	Water	353.2	
480-154908-F-1 MS	480-154908-F-1 MS	Total/NA	Ground Water	353.2	
480-154908-F-2 DU	480-154908-F-2 DU	Total/NA	Ground Water	353.2	

Analysis Batch: 477923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	353.2	
480-154908-2	310D	Total/NA	Ground Water	353.2	
480-154908-3	TRANS	Total/NA	Ground Water	353.2	

Analysis Batch: 477975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	SM 5310C	
480-153888-3	107CR	Total/NA	Ground Water	SM 5310C	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	SM 5310C	
480-153888-6	W11-1ER	Total/NA	Ground Water	SM 5310C	
480-153888-7	W11-3E	Total/NA	Ground Water	SM 5310C	
480-153888-8	W12-5E	Total/NA	Ground Water	SM 5310C	
MB 480-477975/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-477975/5	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 477980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	410.4	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	410.4	
MB 480-477522/1-A	Method Blank	Total/NA	Water	410.4	477522
MB 480-477980/27	Method Blank	Total/NA	Water	410.4	
LCS 480-477980/28	Lab Control Sample	Total/NA	Water	410.4	
480-153929-1 MS	1008BR2	Total/NA	Ground Water	410.4	
480-153929-3 MS	DUP-GW-03	Total/NA	Ground Water	410.4	
480-153929-1 DU	1008BR2	Total/NA	Ground Water	410.4	

Analysis Batch: 477981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-8	W12-5E	Total/NA	Ground Water	410.4	
480-153929-6	W12-4E	Total/NA	Ground Water	410.4	
MB 480-477981/3	Method Blank	Total/NA	Water	410.4	
MB 480-477981/51	Method Blank	Total/NA	Water	410.4	
MB 480-477981/75	Method Blank	Total/NA	Water	410.4	
LCS 480-477981/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-477981/52	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-477981/76	Lab Control Sample	Total/NA	Water	410.4	
480-153888-8 MS	W12-5E	Total/NA	Ground Water	410.4	
480-153929-6 MS	W12-4E	Total/NA	Ground Water	410.4	
480-153888-8 DU	W12-5E	Total/NA	Ground Water	410.4	

Analysis Batch: 477987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	353.2	
MB 480-477987/3	Method Blank	Total/NA	Water	353.2	
LCS 480-477987/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 477992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-2	624B	Total/NA	Ground Water	353.2	

Analysis Batch: 477993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	353.2	

Analysis Batch: 477994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-2	624B	Total/NA	Ground Water	353.2	

Analysis Batch: 478009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	9251	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	9251	
480-153687-3	620C	Total/NA	Ground Water	9251	
480-153688-1	630B	Total/NA	Ground Water	9251	
480-153688-2	W11-1B	Total/NA	Ground Water	9251	
MB 480-478009/27	Method Blank	Total/NA	Water	9251	
MB 480-478009/45	Method Blank	Total/NA	Water	9251	
MB 480-478009/56	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 478009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-478009/28	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478009/46	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478009/57	Lab Control Sample	Total/NA	Water	9251	
480-153687-3 MS	620C	Total/NA	Ground Water	9251	
480-153687-3 MSD	620C	Total/NA	Ground Water	9251	

Analysis Batch: 478072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-2	W12-3E	Total/NA	Ground Water	SM 2540D	
MB 480-478072/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478072/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 478169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	350.1	
480-154465-2	W12-2E	Total/NA	Water	350.1	
480-154465-3	104D	Total/NA	Water	350.1	
MB 480-478169/3	Method Blank	Total/NA	Water	350.1	
MB 480-478169/51	Method Blank	Total/NA	Water	350.1	
MB 480-478169/75	Method Blank	Total/NA	Water	350.1	
LCS 480-478169/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-478169/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-478169/76	Lab Control Sample	Total/NA	Water	350.1	
480-154465-2 MS	W12-2E	Total/NA	Water	350.1	

Analysis Batch: 478171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	9038	
480-153786-2	106DR	Total/NA	Ground Water	9038	
480-153786-3	106WR	Total/NA	Ground Water	9038	
480-153786-5	W11-2E	Total/NA	Ground Water	9038	
480-153786-6	W11-4E	Total/NA	Ground Water	9038	
480-153786-7	W11-5B	Total/NA	Ground Water	9038	
480-153786-8	W11-5E	Total/NA	Ground Water	9038	
MB 480-478171/42	Method Blank	Total/NA	Water	9038	
MB 480-478171/68	Method Blank	Total/NA	Water	9038	
LCS 480-478171/41	Lab Control Sample	Total/NA	Water	9038	
LCS 480-478171/67	Lab Control Sample	Total/NA	Water	9038	
480-153786-3 MS	106WR	Total/NA	Ground Water	9038	
480-153786-3 MSD	106WR	Total/NA	Ground Water	9038	
480-153786-5 MS	W11-2E	Total/NA	Ground Water	9038	
480-153786-5 MSD	W11-2E	Total/NA	Ground Water	9038	

Analysis Batch: 478220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	9251	
480-153786-2	106DR	Total/NA	Ground Water	9251	
480-153786-5	W11-2E	Total/NA	Ground Water	9251	
480-153786-6	W11-4E	Total/NA	Ground Water	9251	
480-153786-7	W11-5B	Total/NA	Ground Water	9251	
480-153786-8	W11-5E	Total/NA	Ground Water	9251	

General Chemistry (Continued)

Analysis Batch: 478220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-478220/20	Method Blank	Total/NA	Water	9251	
MB 480-478220/37	Method Blank	Total/NA	Water	9251	
MB 480-478220/48	Method Blank	Total/NA	Water	9251	
LCS 480-478220/21	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478220/38	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478220/49	Lab Control Sample	Total/NA	Water	9251	
480-153786-5 MS	W11-2E	Total/NA	Ground Water	9251	
480-153786-5 MSD	W11-2E	Total/NA	Ground Water	9251	
480-153786-6 MS	W11-4E	Total/NA	Ground Water	9251	
480-153786-6 MSD	W11-4E	Total/NA	Ground Water	9251	

Analysis Batch: 478356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-2	1008ER2	Total/NA	Ground Water	410.4	
MB 480-478356/75	Method Blank	Total/NA	Water	410.4	
LCS 480-478356/76	Lab Control Sample	Total/NA	Water	410.4	
480-153929-2 MS	1008ER2	Total/NA	Ground Water	410.4	
480-153929-2 DU	1008ER2	Total/NA	Ground Water	410.4	

Analysis Batch: 478358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	350.1	
480-154543-2	627A	Total/NA	Ground Water	350.1	
480-154543-3	628A	Total/NA	Ground Water	350.1	
MB 480-478358/27	Method Blank	Total/NA	Water	350.1	
MB 480-478358/3	Method Blank	Total/NA	Water	350.1	
LCS 480-478358/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-478358/4	Lab Control Sample	Total/NA	Water	350.1	
480-154543-2 MS	627A	Total/NA	Ground Water	350.1	

Analysis Batch: 478371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	SM 5310C	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	SM 5310C	
480-153929-5	W12-4B	Total/NA	Ground Water	SM 5310C	
480-153929-6	W12-4E	Total/NA	Ground Water	SM 5310C	
MB 480-478371/26	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-478371/27	Lab Control Sample	Total/NA	Water	SM 5310C	
480-153929-5 MS	W12-4B	Total/NA	Ground Water	SM 5310C	
480-153929-5 MSD	W12-4B	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 478381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	9038	
480-153888-3	107CR	Total/NA	Ground Water	9038	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	9038	
480-153888-6	W11-1ER	Total/NA	Ground Water	9038	
480-153888-7	W11-3E	Total/NA	Ground Water	9038	
480-153888-8	W12-5E	Total/NA	Ground Water	9038	
MB 480-478381/46	Method Blank	Total/NA	Water	9038	
LCS 480-478381/45	Lab Control Sample	Total/NA	Water	9038	

General Chemistry (Continued)

Analysis Batch: 478381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1 MS	101C	Total/NA	Ground Water	9038	
480-153888-1 MSD	101C	Total/NA	Ground Water	9038	

Analysis Batch: 478397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	350.1	
480-154654-2	W12-3E	Total/NA	Ground Water	350.1	
480-154721-1	104C	Total/NA	Ground Water	350.1	
480-154721-3	W9-1E	Total/NA	Ground Water	350.1	
480-154721-4	W9-2E	Total/NA	Ground Water	350.1	
MB 480-478397/3	Method Blank	Total/NA	Water	350.1	
LCS 480-478397/4	Lab Control Sample	Total/NA	Water	350.1	
480-154654-1 MS	DUP-GW-04	Total/NA	Ground Water	350.1	
480-154721-3 MS	W9-1E	Total/NA	Ground Water	350.1	
480-154721-3 DU	W9-1E	Total/NA	Ground Water	350.1	

Analysis Batch: 478510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-3	106WR	Total/NA	Ground Water	9251	
480-153888-3	107CR	Total/NA	Ground Water	9251	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	9251	
480-153888-6	W11-1ER	Total/NA	Ground Water	9251	
480-153888-7	W11-3E	Total/NA	Ground Water	9251	
480-153888-8	W12-5E	Total/NA	Ground Water	9251	
MB 480-478510/12	Method Blank	Total/NA	Water	9251	
MB 480-478510/22	Method Blank	Total/NA	Water	9251	
LCS 480-478510/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478510/23	Lab Control Sample	Total/NA	Water	9251	
480-153786-3 MS	106WR	Total/NA	Ground Water	9251	
480-153786-3 MSD	106WR	Total/NA	Ground Water	9251	

Analysis Batch: 478525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	SM 2540C	
480-154908-2	310D	Total/NA	Ground Water	SM 2540C	
480-154908-3	TRANS	Total/NA	Ground Water	SM 2540C	
MB 480-478525/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478525/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154908-2 DU	310D	Total/NA	Ground Water	SM 2540C	
480-154908-3 DU	TRANS	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 478553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-3	TRANS	Total/NA	Ground Water	9040C	
LCS 480-478553/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 478591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	SM 2540D	
480-154908-2	310D	Total/NA	Ground Water	SM 2540D	
480-154908-3	TRANS	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 478591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-478591/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478591/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 478736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	310.2	
480-154465-2	W12-2E	Total/NA	Water	310.2	
480-154465-3	104D	Total/NA	Water	310.2	
480-154543-1	626B	Total/NA	Ground Water	310.2	
480-154543-2	627A	Total/NA	Ground Water	310.2	
480-154543-3	628A	Total/NA	Ground Water	310.2	
MB 480-478736/130	Method Blank	Total/NA	Water	310.2	
MB 480-478736/139	Method Blank	Total/NA	Water	310.2	
MB 480-478736/151	Method Blank	Total/NA	Water	310.2	
MB 480-478736/190	Method Blank	Total/NA	Water	310.2	
MB 480-478736/97	Method Blank	Total/NA	Water	310.2	
LCS 480-478736/131	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-478736/140	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-478736/152	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-478736/191	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-478736/98	Lab Control Sample	Total/NA	Water	310.2	
480-154465-2 MS	W12-2E	Total/NA	Water	310.2	
480-154465-2 MSD	W12-2E	Total/NA	Water	310.2	
480-154465-3 MS	104D	Total/NA	Water	310.2	
480-154465-3 MSD	104D	Total/NA	Water	310.2	

Analysis Batch: 478737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	9251	
480-153929-1	1008BR2	Total/NA	Ground Water	9251	
480-153929-2	1008ER2	Total/NA	Ground Water	9251	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	9251	
480-154465-1	W12-1B	Total/NA	Water	9251	
480-154465-2	W12-2E	Total/NA	Water	9251	
480-154465-3	104D	Total/NA	Water	9251	
480-154543-1	626B	Total/NA	Ground Water	9251	
480-154543-2	627A	Total/NA	Ground Water	9251	
480-154543-3	628A	Total/NA	Ground Water	9251	
MB 480-478737/126	Method Blank	Total/NA	Water	9251	
MB 480-478737/161	Method Blank	Total/NA	Water	9251	
MB 480-478737/173	Method Blank	Total/NA	Water	9251	
MB 480-478737/217	Method Blank	Total/NA	Water	9251	
MB 480-478737/229	Method Blank	Total/NA	Water	9251	
MB 480-478737/34	Method Blank	Total/NA	Water	9251	
MB 480-478737/68	Method Blank	Total/NA	Water	9251	
MB 480-478737/80	Method Blank	Total/NA	Water	9251	
LCS 480-478737/127	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/162	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/174	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/218	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/230	Lab Control Sample	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 478737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-478737/35	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/69	Lab Control Sample	Total/NA	Water	9251	
LCS 480-478737/81	Lab Control Sample	Total/NA	Water	9251	
480-153888-2 MS	107BR	Total/NA	Ground Water	9251	
480-153888-2 MSD	107BR	Total/NA	Ground Water	9251	
480-153929-1 MS	1008BR2	Total/NA	Ground Water	9251	
480-153929-1 MSD	1008BR2	Total/NA	Ground Water	9251	
480-153929-2 MS	1008ER2	Total/NA	Ground Water	9251	
480-153929-2 MSD	1008ER2	Total/NA	Ground Water	9251	
480-154465-2 MS	W12-2E	Total/NA	Water	9251	
480-154465-2 MSD	W12-2E	Total/NA	Water	9251	
480-154465-3 MS	104D	Total/NA	Water	9251	
480-154465-3 MSD	104D	Total/NA	Water	9251	
480-154543-2 MS	627A	Total/NA	Ground Water	9251	
480-154543-2 MSD	627A	Total/NA	Ground Water	9251	

Analysis Batch: 478743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	9038	
480-153929-1	1008BR2	Total/NA	Ground Water	9038	
480-153929-2	1008ER2	Total/NA	Ground Water	9038	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	9038	
480-153929-6	W12-4E	Total/NA	Ground Water	9038	
MB 480-478743/22	Method Blank	Total/NA	Water	9038	
LCS 480-478743/21	Lab Control Sample	Total/NA	Water	9038	
480-153929-1 MS	1008BR2	Total/NA	Ground Water	9038	
480-153929-1 MSD	1008BR2	Total/NA	Ground Water	9038	
480-153929-2 MS	1008ER2	Total/NA	Ground Water	9038	
480-153929-2 MSD	1008ER2	Total/NA	Ground Water	9038	
480-153929-3 MS	DUP-GW-03	Total/NA	Ground Water	9038	
480-153929-3 MSD	DUP-GW-03	Total/NA	Ground Water	9038	

Analysis Batch: 478792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	SM 2540D	
480-154949-2	624B	Total/NA	Ground Water	SM 2540D	
MB 480-478792/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478792/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154949-1 DU	310AW	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 478811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	SM 2540C	
480-154949-2	624B	Total/NA	Ground Water	SM 2540C	
MB 480-478811/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478811/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154949-2 DU	624B	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 479088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-2	1008ER2	Total/NA	Ground Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 479088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-479088/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-479088/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 479096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	310.2	
480-154654-2	W12-3E	Total/NA	Ground Water	310.2	
480-154721-1	104C	Total/NA	Ground Water	310.2	
480-154721-3	W9-1E	Total/NA	Ground Water	310.2	
480-154721-4	W9-2E	Total/NA	Ground Water	310.2	
MB 480-479096/127	Method Blank	Total/NA	Water	310.2	
MB 480-479096/162	Method Blank	Total/NA	Water	310.2	
MB 480-479096/196	Method Blank	Total/NA	Water	310.2	
MB 480-479096/84	Method Blank	Total/NA	Water	310.2	
LCS 480-479096/128	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479096/163	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479096/197	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479096/85	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-2	107BR	Total/NA	Ground Water	SM 5310C	
MB 480-479170/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-479170/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 479295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	350.1	
480-154908-2	310D	Total/NA	Ground Water	350.1	
480-154908-3	TRANS	Total/NA	Ground Water	350.1	
480-154949-1	310AW	Total/NA	Ground Water	350.1	
480-154949-2	624B	Total/NA	Ground Water	350.1	
MB 480-479295/27	Method Blank	Total/NA	Water	350.1	
MB 480-479295/51	Method Blank	Total/NA	Water	350.1	
LCS 480-479295/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-479295/52	Lab Control Sample	Total/NA	Water	350.1	
480-154908-3 MS	TRANS	Total/NA	Ground Water	350.1	
480-154908-3 DU	TRANS	Total/NA	Ground Water	350.1	

Analysis Batch: 479324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-5	W12-4B	Total/NA	Ground Water	9251	
480-153929-6	W12-4E	Total/NA	Ground Water	9251	
MB 480-479324/12	Method Blank	Total/NA	Water	9251	
MB 480-479324/21	Method Blank	Total/NA	Water	9251	
LCS 480-479324/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479324/22	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 479576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	310.2	

General Chemistry (Continued)

Analysis Batch: 479576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-2	310D	Total/NA	Ground Water	310.2	
480-154908-3	TRANS	Total/NA	Ground Water	310.2	
MB 480-479576/12	Method Blank	Total/NA	Water	310.2	
MB 480-479576/29	Method Blank	Total/NA	Water	310.2	
MB 480-479576/67	Method Blank	Total/NA	Water	310.2	
LCS 480-479576/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/30	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/68	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	9251	
480-154908-2	310D	Total/NA	Ground Water	9251	
480-154908-3	TRANS	Total/NA	Ground Water	9251	
MB 480-479577/12	Method Blank	Total/NA	Water	9251	
MB 480-479577/27	Method Blank	Total/NA	Water	9251	
MB 480-479577/65	Method Blank	Total/NA	Water	9251	
LCS 480-479577/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/28	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/66	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 479655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-5	W12-4B	Total/NA	Ground Water	9038	
MB 480-479655/12	Method Blank	Total/NA	Water	9038	
LCS 480-479655/11	Lab Control Sample	Total/NA	Water	9038	
480-153929-5 MS	W12-4B	Total/NA	Ground Water	9038	
480-153929-5 MSD	W12-4B	Total/NA	Ground Water	9038	

Analysis Batch: 480112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	310.2	
480-154949-2	624B	Total/NA	Ground Water	310.2	
MB 480-480112/121	Method Blank	Total/NA	Water	310.2	
MB 480-480112/81	Method Blank	Total/NA	Water	310.2	
MB 480-480112/94	Method Blank	Total/NA	Water	310.2	
LCS 480-480112/122	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-480112/82	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-480112/95	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 480208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	SM 5310C	
480-154465-2	W12-2E	Total/NA	Water	SM 5310C	
480-154465-3	104D	Total/NA	Water	SM 5310C	
480-154543-1	626B	Total/NA	Ground Water	SM 5310C	
480-154543-2	627A	Total/NA	Ground Water	SM 5310C	
480-154543-3	628A	Total/NA	Ground Water	SM 5310C	
MB 480-480208/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-480208/51	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-480208/28	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 480208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-480208/52	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 480259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-3	TRANS	Total/NA	Ground Water	410.4	
MB 480-480259/3	Method Blank	Total/NA	Water	410.4	
LCS 480-480259/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-2	624B	Total/NA	Ground Water	410.4	
MB 480-480286/27	Method Blank	Total/NA	Water	410.4	
MB 480-480286/3	Method Blank	Total/NA	Water	410.4	
LCS 480-480286/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-480286/4	Lab Control Sample	Total/NA	Water	410.4	
480-154949-2 MS	624B	Total/NA	Ground Water	410.4	

Analysis Batch: 480471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	9038	
480-154465-2	W12-2E	Total/NA	Water	9038	
480-154465-3	104D	Total/NA	Water	9038	
MB 480-480471/12	Method Blank	Total/NA	Water	9038	
MB 480-480471/39	Method Blank	Total/NA	Water	9038	
MB 480-480471/81	Method Blank	Total/NA	Water	9038	
MB 480-480471/99	Method Blank	Total/NA	Water	9038	
LCS 480-480471/11	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480471/38	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480471/80	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480471/98	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 480574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-3	628A	Total/NA	Ground Water	9038	
480-154654-1	DUP-GW-04	Total/NA	Ground Water	9038	
480-154654-2	W12-3E	Total/NA	Ground Water	9038	
MB 480-480574/12	Method Blank	Total/NA	Water	9038	
MB 480-480574/43	Method Blank	Total/NA	Water	9038	
MB 480-480574/65	Method Blank	Total/NA	Water	9038	
LCS 480-480574/11	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480574/42	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480574/64	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 480636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	9038	
MB 480-480636/50	Method Blank	Total/NA	Water	9038	
MB 480-480636/63	Method Blank	Total/NA	Water	9038	
LCS 480-480636/49	Lab Control Sample	Total/NA	Water	9038	
LCS 480-480636/62	Lab Control Sample	Total/NA	Water	9038	

General Chemistry

Analysis Batch: 480855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-3	W9-1E	Total/NA	Ground Water	9038	
MB 480-480855/70	Method Blank	Total/NA	Water	9038	
LCS 480-480855/69	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 480960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	9251	
480-154654-2	W12-3E	Total/NA	Ground Water	9251	
480-154721-1	104C	Total/NA	Ground Water	9251	
480-154721-3	W9-1E	Total/NA	Ground Water	9251	
480-154721-4	W9-2E	Total/NA	Ground Water	9251	
MB 480-480960/110	Method Blank	Total/NA	Water	9251	
MB 480-480960/65	Method Blank	Total/NA	Water	9251	
MB 480-480960/76	Method Blank	Total/NA	Water	9251	
MB 480-480960/93	Method Blank	Total/NA	Water	9251	
LCS 480-480960/111	Lab Control Sample	Total/NA	Water	9251	
LCS 480-480960/66	Lab Control Sample	Total/NA	Water	9251	
LCS 480-480960/77	Lab Control Sample	Total/NA	Water	9251	
LCS 480-480960/94	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 480987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	SM 5310C	
480-154654-2	W12-3E	Total/NA	Ground Water	SM 5310C	
480-154721-1	104C	Total/NA	Ground Water	SM 5310C	
480-154721-3	W9-1E	Total/NA	Ground Water	SM 5310C	
480-154721-4	W9-2E	Total/NA	Ground Water	SM 5310C	
MB 480-480987/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-480987/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-154654-1 MS	DUP-GW-04	Total/NA	Ground Water	SM 5310C	
480-154654-1 MSD	DUP-GW-04	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 481176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-2	627A	Total/NA	Ground Water	9038	
480-154721-1	104C	Total/NA	Ground Water	9038	
480-154721-4	W9-2E	Total/NA	Ground Water	9038	
MB 480-481176/32	Method Blank	Total/NA	Water	9038	
LCS 480-481176/31	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 481318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	SM 5310C	
480-154908-2	310D	Total/NA	Ground Water	SM 5310C	
480-154908-3	TRANS	Total/NA	Ground Water	SM 5310C	
480-154949-1	310AW	Total/NA	Ground Water	SM 5310C	
480-154949-2	624B	Total/NA	Ground Water	SM 5310C	
MB 480-481318/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481318/28	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 481390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	9251	
480-154949-2	624B	Total/NA	Ground Water	9251	
MB 480-481390/12	Method Blank	Total/NA	Water	9251	
MB 480-481390/49	Method Blank	Total/NA	Water	9251	
MB 480-481390/64	Method Blank	Total/NA	Water	9251	
LCS 480-481390/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/50	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/65	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	9038	
480-154908-2	310D	Total/NA	Ground Water	9038	
480-154908-3	TRANS	Total/NA	Ground Water	9038	
480-154949-1	310AW	Total/NA	Ground Water	9038	
480-154949-2	624B	Total/NA	Ground Water	9038	
MB 480-481426/32	Method Blank	Total/NA	Water	9038	
MB 480-481426/63	Method Blank	Total/NA	Water	9038	
MB 480-481426/84	Method Blank	Total/NA	Water	9038	
LCS 480-481426/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/62	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/83	Lab Control Sample	Total/NA	Water	9038	
480-154908-1 MS	310C	Total/NA	Ground Water	9038	
480-154908-1 MSD	310C	Total/NA	Ground Water	9038	

Analysis Batch: 481470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	SM 1030E	
480-153454-1	1040B	Total/NA	Ground Water	SM 1030E	
480-153454-2	1041B	Total/NA	Ground Water	SM 1030E	
480-153454-3	1134B	Total/NA	Ground Water	SM 1030E	
480-153454-4	617A	Total/NA	Ground Water	SM 1030E	
480-153454-5	617C	Total/NA	Ground Water	SM 1030E	
480-153454-6	618AR	Total/NA	Ground Water	SM 1030E	
480-153454-7	618CR	Total/NA	Ground Water	SM 1030E	
480-153523-1	629B	Total/NA	Ground Water	SM 1030E	
480-153523-2	630E	Total/NA	Ground Water	SM 1030E	
480-153687-1	620A	Total/NA	Ground Water	SM 1030E	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	SM 1030E	
480-153687-3	620C	Total/NA	Ground Water	SM 1030E	
480-153688-1	630B	Total/NA	Ground Water	SM 1030E	
480-153688-2	W11-1B	Total/NA	Ground Water	SM 1030E	
480-153786-1	106CR	Total/NA	Ground Water	SM 1030E	
480-153786-2	106DR	Total/NA	Ground Water	SM 1030E	
480-153786-3	106WR	Total/NA	Ground Water	SM 1030E	
480-153786-5	W11-2E	Total/NA	Ground Water	SM 1030E	
480-153786-6	W11-4E	Total/NA	Ground Water	SM 1030E	
480-153786-7	W11-5B	Total/NA	Ground Water	SM 1030E	
480-153786-8	W11-5E	Total/NA	Ground Water	SM 1030E	
480-153888-1	101C	Total/NA	Ground Water	SM 1030E	
480-153888-2	107BR	Total/NA	Ground Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 481470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-3	107CR	Total/NA	Ground Water	SM 1030E	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	SM 1030E	
480-153888-6	W11-1ER	Total/NA	Ground Water	SM 1030E	
480-153888-7	W11-3E	Total/NA	Ground Water	SM 1030E	
480-153888-8	W12-5E	Total/NA	Ground Water	SM 1030E	
480-153899-1	629E	Total/NA	Ground Water	SM 1030E	
480-153929-1	1008BR2	Total/NA	Ground Water	SM 1030E	
480-153929-2	1008ER2	Total/NA	Ground Water	SM 1030E	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	SM 1030E	
480-153929-5	W12-4B	Total/NA	Ground Water	SM 1030E	
480-153929-6	W12-4E	Total/NA	Ground Water	SM 1030E	
480-154465-1	W12-1B	Total/NA	Water	SM 1030E	
480-154465-2	W12-2E	Total/NA	Water	SM 1030E	
480-154465-3	104D	Total/NA	Water	SM 1030E	
480-154543-1	626B	Total/NA	Ground Water	SM 1030E	
480-154543-2	627A	Total/NA	Ground Water	SM 1030E	
480-154543-3	628A	Total/NA	Ground Water	SM 1030E	
480-154654-1	DUP-GW-04	Total/NA	Ground Water	SM 1030E	
480-154654-2	W12-3E	Total/NA	Ground Water	SM 1030E	
480-154721-1	104C	Total/NA	Ground Water	SM 1030E	
480-154721-3	W9-1E	Total/NA	Ground Water	SM 1030E	
480-154721-4	W9-2E	Total/NA	Ground Water	SM 1030E	
480-154908-1	310C	Total/NA	Ground Water	SM 1030E	
480-154908-2	310D	Total/NA	Ground Water	SM 1030E	
480-154908-3	TRANS	Total/NA	Ground Water	SM 1030E	
480-154949-1	310AW	Total/NA	Ground Water	SM 1030E	
480-154949-2	624B	Total/NA	Ground Water	SM 1030E	

Analysis Batch: 482863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	SM 2540D	
480-153454-3	1134B	Total/NA	Ground Water	SM 2540D	
MB 480-482863/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-482863/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-153454-1 DU	1040B	Total/NA	Ground Water	SM 2540D	

Biology

Analysis Batch: 482266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-3	TRANS	Total/NA	Ground Water	SM 9222B	

Field Service / Mobile Lab

Analysis Batch: 471408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152997-1	W11-6E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 473013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-1	1040B	Total/NA	Ground Water	Field Sampling	
480-153454-2	1041B	Total/NA	Ground Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 473013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153454-3	1134B	Total/NA	Ground Water	Field Sampling	
480-153454-4	617A	Total/NA	Ground Water	Field Sampling	
480-153454-5	617C	Total/NA	Ground Water	Field Sampling	
480-153454-6	618AR	Total/NA	Ground Water	Field Sampling	
480-153454-7	618CR	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 473246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153523-1	629B	Total/NA	Ground Water	Field Sampling	
480-153523-2	630E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 475320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153687-1	620A	Total/NA	Ground Water	Field Sampling	
480-153687-2	DUP-GW-01	Total/NA	Ground Water	Field Sampling	
480-153687-3	620C	Total/NA	Ground Water	Field Sampling	
480-153688-1	630B	Total/NA	Ground Water	Field Sampling	
480-153688-2	W11-1B	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 475328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153888-1	101C	Total/NA	Ground Water	Field Sampling	
480-153888-2	107BR	Total/NA	Ground Water	Field Sampling	
480-153888-3	107CR	Total/NA	Ground Water	Field Sampling	
480-153888-4	DUP-GW-02	Total/NA	Ground Water	Field Sampling	
480-153888-6	W11-1ER	Total/NA	Ground Water	Field Sampling	
480-153888-7	W11-3E	Total/NA	Ground Water	Field Sampling	
480-153888-8	W12-5E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 475331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153899-1	629E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 475342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153929-1	1008BR2	Total/NA	Ground Water	Field Sampling	
480-153929-2	1008ER2	Total/NA	Ground Water	Field Sampling	
480-153929-3	DUP-GW-03	Total/NA	Ground Water	Field Sampling	
480-153929-5	W12-4B	Total/NA	Ground Water	Field Sampling	
480-153929-6	W12-4E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 476515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154465-1	W12-1B	Total/NA	Water	Field Sampling	
480-154465-2	W12-2E	Total/NA	Water	Field Sampling	
480-154465-3	104D	Total/NA	Water	Field Sampling	

Analysis Batch: 476758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-1	626B	Total/NA	Ground Water	Field Sampling	
480-154543-2	627A	Total/NA	Ground Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 476758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154543-3	628A	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 477261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154721-1	104C	Total/NA	Ground Water	Field Sampling	
480-154721-3	W9-1E	Total/NA	Ground Water	Field Sampling	
480-154721-4	W9-2E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 477409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154654-1	DUP-GW-04	Total/NA	Ground Water	Field Sampling	
480-154654-2	W12-3E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 477439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153786-1	106CR	Total/NA	Ground Water	Field Sampling	
480-153786-2	106DR	Total/NA	Ground Water	Field Sampling	
480-153786-3	106WR	Total/NA	Ground Water	Field Sampling	
480-153786-5	W11-2E	Total/NA	Ground Water	Field Sampling	
480-153786-6	W11-4E	Total/NA	Ground Water	Field Sampling	
480-153786-7	W11-5B	Total/NA	Ground Water	Field Sampling	
480-153786-8	W11-5E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 477858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154908-1	310C	Total/NA	Ground Water	Field Sampling	
480-154908-2	310D	Total/NA	Ground Water	Field Sampling	
480-154908-3	TRANS	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 478139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-1	310AW	Total/NA	Ground Water	Field Sampling	
480-154949-2	624B	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 477920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477920/3	Method Blank	Total/NA		353.2_Nitrite	
LCS 480-477920/4	Lab Control Sample	Total/NA		353.2_Nitrite	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-6E

Date Collected: 05/03/19 14:08
Date Received: 05/04/19 09:00

Lab Sample ID: 480-152997-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	472454	05/13/19 18:56	AEM	TAL BUF
Total/NA	Prep	3005A			472271	05/13/19 07:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474096	05/21/19 12:40	AMH	TAL BUF
Total/NA	Prep	3010A			572168	05/29/19 10:34	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572470	05/30/19 14:28	BWR	TAL SAV
Total/NA	Analysis	310.2		2	473606	05/19/19 13:23	KEB	TAL BUF
Total/NA	Analysis	350.1		1	474408	05/23/19 10:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	471236	05/04/19 13:15	SMH	TAL BUF
Total/NA	Analysis	9038		1	475869	06/03/19 10:58	KEB	TAL BUF
Total/NA	Analysis	9251		1	475272	05/29/19 16:52	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	472279	05/10/19 12:03	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	472095	05/09/19 14:46	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	475668	05/31/19 05:48	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	471408	05/03/19 14:08	FLD	TAL BUF

Client Sample ID: 1040B

Date Collected: 05/13/19 14:31
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/19/19 22:48	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:12	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474807	05/25/19 15:47	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:05	BJB	TAL SAV
Total/NA	Analysis	310.2		1	474333	05/22/19 16:17	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 14:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/15/19 00:33	SMH	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:11	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:36	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	482863	07/19/19 12:51	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476012	06/01/19 03:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 14:31	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 1041B

Date Collected: 05/13/19 14:35
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/19/19 23:13	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:42	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474807	05/25/19 16:16	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 16:58	BJB	TAL SAV
Total/NA	Analysis	310.2		2	474333	05/22/19 19:41	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 12:51	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/15/19 00:37	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476102	06/04/19 11:24	EAG	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:41	KEB	TAL BUF
Total/NA	Analysis	9251		1	476610	06/06/19 15:35	KMF	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476550	06/05/19 20:01	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 14:35	FLD	TAL BUF

Client Sample ID: 1134B

Date Collected: 05/13/19 16:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/19/19 23:37	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:45	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474807	05/25/19 16:20	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:21	BJB	TAL SAV
Total/NA	Analysis	310.2		2	474333	05/22/19 18:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 12:52	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/14/19 22:37	SMH	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:11	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:37	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	482863	07/19/19 12:51	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476012	06/01/19 04:23	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 16:00	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 617A

Date Collected: 05/13/19 13:08
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/20/19 00:01	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:49	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474807	05/25/19 16:23	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:01	BJB	TAL SAV
Total/NA	Analysis	310.2		2	474333	05/22/19 18:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 14:56	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/14/19 22:39	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476102	06/04/19 11:24	EAG	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:30	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:37	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476012	06/01/19 05:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 13:08	FLD	TAL BUF

Client Sample ID: 617C

Date Collected: 05/13/19 13:01
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/20/19 00:25	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:53	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481596	07/10/19 11:53	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:09	BJB	TAL SAV
Total/NA	Analysis	310.2		2	474333	05/22/19 19:47	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 12:55	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/14/19 22:40	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:41	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:37	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476012	06/01/19 05:29	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 13:01	FLD	TAL BUF

Client Sample ID: 618AR

Date Collected: 05/13/19 11:39
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/20/19 00:49	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 22:57	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481596	07/10/19 11:56	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:17	BJB	TAL SAV
Total/NA	Analysis	310.2		4	474333	05/22/19 18:35	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 12:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/14/19 22:41	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476102	06/04/19 11:24	EAG	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:41	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:38	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476550	06/05/19 20:16	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 11:39	FLD	TAL BUF

Client Sample ID: 618CR

Date Collected: 05/13/19 11:40
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/20/19 01:13	RJF	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474729	05/24/19 23:01	AMH	TAL BUF
Total/NA	Prep	3005A			473190	05/20/19 07:07	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481596	07/10/19 12:00	AMH	TAL BUF
Total/NA	Prep	3010A			570866	05/17/19 14:19	AJR	TAL SAV
Total/NA	Analysis	6020A		1	571177	05/20/19 17:13	BJB	TAL SAV
Total/NA	Analysis	310.2		1	474333	05/22/19 16:17	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 12:59	CLT	TAL BUF
Total/NA	Analysis	353.2		1	472870	05/14/19 22:42	SMH	TAL BUF
Total/NA	Analysis	9038		1	477009	06/10/19 10:41	KEB	TAL BUF
Total/NA	Analysis	9251		1	474334	05/22/19 16:39	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473397	05/17/19 09:59	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473747	05/20/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476012	06/01/19 06:02	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473013	05/13/19 11:40	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/13/19 00:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-8

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	473590	05/20/19 01:37	RJF	TAL BUF

Client Sample ID: 629B

Date Collected: 05/14/19 11:25
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474076	05/22/19 12:37	AEM	TAL BUF
Total/NA	Prep	3005A			473449	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474735	05/24/19 22:09	LMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:08	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475273	05/29/19 12:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 14:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473080	05/15/19 22:20	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476102	06/04/19 11:24	EAG	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 15:01	KEB	TAL BUF
Total/NA	Analysis	9251		1	476610	06/06/19 17:56	KMF	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473988	05/21/19 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473951	05/21/19 13:58	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 11:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473246	05/14/19 11:25	FLD	TAL BUF

Client Sample ID: 630E

Date Collected: 05/14/19 14:53
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474076	05/22/19 13:02	AEM	TAL BUF
Total/NA	Prep	3005A			473449	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474735	05/24/19 22:27	LMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:12	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475273	05/29/19 12:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475406	05/30/19 14:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473080	05/15/19 23:40	SMH	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 13:20	KEB	TAL BUF
Total/NA	Analysis	9251		1	477359	06/11/19 13:11	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	473988	05/21/19 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	473951	05/21/19 13:58	CSS	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 630E
Date Collected: 05/14/19 14:53
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 11:49	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473246	05/14/19 14:53	FLD	TAL BUF

Client Sample ID: TB-01
Date Collected: 05/14/19 00:00
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-3
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474076	05/22/19 13:26	AEM	TAL BUF

Client Sample ID: 620A
Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474427	05/24/19 06:20	LCH	TAL BUF
Total/NA	Prep	3005A			473773	05/22/19 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476247	06/04/19 13:14	AMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:36	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475409	05/30/19 11:37	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475876	06/03/19 11:29	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473544	05/18/19 09:08	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476540	06/06/19 12:05	EAG	TAL BUF
Total/NA	Analysis	9038		1	477709	06/13/19 15:34	KEB	TAL BUF
Total/NA	Analysis	9251		1	478009	06/13/19 20:22	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	476467	06/06/19 08:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	476753	06/07/19 05:02	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475320	05/16/19 12:12	FLD	TAL BUF

Client Sample ID: DUP-GW-01
Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474427	05/24/19 06:46	LCH	TAL BUF
Total/NA	Prep	3005A			473773	05/22/19 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476247	06/04/19 13:18	AMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:40	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475409	05/30/19 11:39	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: DUP-GW-01

Date Collected: 05/16/19 12:12
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	475876	06/03/19 11:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473544	05/18/19 09:09	SMH	TAL BUF
Total/NA	Analysis	410.4		1	477220	06/11/19 10:51	EAG	TAL BUF
Total/NA	Analysis	9038		1	477709	06/13/19 15:34	KEB	TAL BUF
Total/NA	Analysis	9251		1	478009	06/13/19 20:31	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474460	05/23/19 14:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	476753	06/07/19 05:16	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475320	05/16/19 12:12	FLD	TAL BUF

Client Sample ID: 620C

Date Collected: 05/16/19 13:11
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474427	05/24/19 07:13	LCH	TAL BUF
Total/NA	Prep	3005A			473773	05/22/19 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476247	06/04/19 13:22	AMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:32	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475409	05/30/19 11:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475876	06/03/19 11:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473544	05/18/19 06:57	SMH	TAL BUF
Total/NA	Analysis	9038		1	477709	06/13/19 15:35	KEB	TAL BUF
Total/NA	Analysis	9251		1	478009	06/13/19 23:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474460	05/23/19 14:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	476753	06/07/19 05:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475320	05/16/19 13:11	FLD	TAL BUF

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-4
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474427	05/24/19 07:39	LCH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 630B

Date Collected: 05/16/19 14:45
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474543	05/24/19 16:26	OMI	TAL BUF
Total/NA	Prep	3005A			473773	05/22/19 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476247	06/04/19 13:26	AMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:16	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475409	05/30/19 11:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	476116	06/04/19 13:34	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473544	05/18/19 06:58	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476540	06/06/19 12:05	EAG	TAL BUF
Total/NA	Analysis	9038		1	477709	06/13/19 15:49	KEB	TAL BUF
Total/NA	Analysis	9251		1	478009	06/13/19 23:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474460	05/23/19 14:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	476753	06/07/19 05:45	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475320	05/16/19 14:45	FLD	TAL BUF

Client Sample ID: W11-1B

Date Collected: 05/16/19 16:03
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473773	05/22/19 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476247	06/04/19 13:30	AMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:20	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475409	05/30/19 11:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	476103	06/04/19 10:52	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473544	05/18/19 06:59	SMH	TAL BUF
Total/NA	Analysis	9038		1	477709	06/13/19 15:50	KEB	TAL BUF
Total/NA	Analysis	9251		1	478009	06/13/19 23:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474466	05/23/19 15:09	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	476753	06/07/19 06:00	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475320	05/16/19 16:03	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-3

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474543	05/24/19 16:53	OMI	TAL BUF

Client Sample ID: 106CR

Date Collected: 05/20/19 12:25
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:00	LMH	TAL BUF
Total/NA	Prep	3010A			576996	07/07/19 11:24	AJR	TAL SAV
Total/NA	Analysis	6020A		1	577388	07/09/19 21:14	BJB	TAL SAV
Total/NA	Analysis	310.2		3	475783	06/02/19 16:30	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477199	06/11/19 10:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 09:23	CLT	TAL BUF
Total/NA	Analysis	410.4		1	477854	06/14/19 10:23	EAG	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 15:10	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 13:26	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 05:59	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 12:25	FLD	TAL BUF

Client Sample ID: 106DR

Date Collected: 05/20/19 13:20
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:29	LMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:48	BJB	TAL SAV
Total/NA	Analysis	310.2		4	475783	06/02/19 16:37	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 10:12	CLT	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 15:10	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 13:26	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 06:45	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 13:20	FLD	TAL BUF

Client Sample ID: 106WR

Date Collected: 05/20/19 14:55
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:33	LMH	TAL BUF
Total/NA	Prep	3010A			572722	06/02/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572945	06/04/19 10:51	BJB	TAL SAV
Total/NA	Analysis	310.2		4	475783	06/02/19 16:37	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:46	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 10:13	CLT	TAL BUF
Total/NA	Analysis	410.4		1	477854	06/14/19 10:23	EAG	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 14:31	KEB	TAL BUF
Total/NA	Analysis	9251		1	478510	06/18/19 17:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 06:59	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 14:55	FLD	TAL BUF

Client Sample ID: TB-01

Date Collected: 05/20/19 00:00
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-4

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474842	05/28/19 17:55	AMM	TAL BUF

Client Sample ID: W11-2E

Date Collected: 05/20/19 12:08
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474848	05/28/19 13:03	KMN	TAL BUF
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:37	LMH	TAL BUF
Total/NA	Prep	3010A			572722	06/02/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572945	06/04/19 10:55	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475783	06/02/19 16:50	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:50	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 09:31	CLT	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 14:31	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 14:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 07:14	CLA	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-2E

Date Collected: 05/20/19 12:08
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 12:08	FLD	TAL BUF

Client Sample ID: W11-4E

Date Collected: 05/20/19 13:31
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:41	LMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:44	BJB	TAL SAV
Total/NA	Analysis	310.2		3	475783	06/02/19 16:37	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:52	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 09:34	CLT	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 15:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 14:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 07:28	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 13:31	FLD	TAL BUF

Client Sample ID: W11-5B

Date Collected: 05/20/19 16:04
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:45	LMH	TAL BUF
Total/NA	Prep	3010A			572722	06/02/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572945	06/04/19 10:47	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475783	06/02/19 16:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:53	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 09:35	CLT	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 14:33	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 14:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 07:43	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 16:04	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-5E

Date Collected: 05/20/19 14:59
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474013	05/22/19 07:53	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475535	05/30/19 14:49	LMH	TAL BUF
Total/NA	Prep	3010A			572518	05/31/19 12:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 14:52	BJB	TAL SAV
Total/NA	Analysis	310.2		1	475783	06/02/19 16:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 09:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474143	05/22/19 09:36	CLT	TAL BUF
Total/NA	Analysis	9038		1	478171	06/17/19 14:33	KEB	TAL BUF
Total/NA	Analysis	9251		1	478220	06/17/19 14:20	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474715	05/25/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474650	05/24/19 14:35	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477716	06/13/19 07:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477439	05/20/19 14:59	FLD	TAL BUF

Client Sample ID: 101C

Date Collected: 05/21/19 14:52
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475125	05/30/19 02:01	S1V	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:26	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:24	AMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 15:39	BJB	TAL SAV
Total/NA	Analysis	310.2		1	476957	06/09/19 15:40	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:16	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474362	05/23/19 08:27	CLT	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:07	KEB	TAL BUF
Total/NA	Analysis	9251		1	476610	06/06/19 10:46	KMF	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474901	05/28/19 10:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 00:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 14:52	FLD	TAL BUF

Client Sample ID: 107BR

Lab Sample ID: 480-153888-2

Date Collected: 05/21/19 13:48

Matrix: Ground Water

Date Received: 05/22/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475125	05/30/19 02:27	S1V	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:29	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:39	AMH	TAL BUF
Total/NA	Prep	3010A			572782	06/03/19 11:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	573404	06/07/19 00:05	BJB	TAL SAV
Total/NA	Analysis	310.2		4	475783	06/02/19 16:46	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:17	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474278	05/22/19 22:13	SMH	TAL BUF
Total/NA	Analysis	9038		1	478743	06/19/19 20:43	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 12:21	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	479170	06/21/19 16:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 13:48	FLD	TAL BUF

Client Sample ID: 107CR

Lab Sample ID: 480-153888-3

Date Collected: 05/21/19 14:45

Matrix: Ground Water

Date Received: 05/22/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:33	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:42	AMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 15:35	BJB	TAL SAV
Total/NA	Analysis	310.2		3	475783	06/02/19 16:46	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:22	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474362	05/23/19 08:28	CLT	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:28	KEB	TAL BUF
Total/NA	Analysis	9251		1	478510	06/18/19 17:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 00:54	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 14:45	FLD	TAL BUF

Client Sample ID: DUP-GW-02

Lab Sample ID: 480-153888-4

Date Collected: 05/21/19 11:56

Matrix: Ground Water

Date Received: 05/22/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475604	06/01/19 00:12	KMN	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:48	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:46	AMH	TAL BUF
Total/NA	Prep	3010A			572782	06/03/19 11:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	573404	06/07/19 00:01	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475783	06/02/19 19:18	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:23	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474278	05/22/19 22:15	SMH	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:28	KEB	TAL BUF
Total/NA	Analysis	9251		1	478510	06/18/19 17:25	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 01:08	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 11:56	FLD	TAL BUF

Client Sample ID: TB-01

Lab Sample ID: 480-153888-5

Date Collected: 05/21/19 00:00

Matrix: WQ

Date Received: 05/22/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475125	05/30/19 02:54	S1V	TAL BUF

Client Sample ID: W11-1ER

Lab Sample ID: 480-153888-6

Date Collected: 05/21/19 11:56

Matrix: Ground Water

Date Received: 05/22/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:51	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:50	AMH	TAL BUF
Total/NA	Prep	3010A			572782	06/03/19 11:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	573404	06/06/19 23:57	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475783	06/02/19 17:47	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:24	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474278	05/22/19 22:16	SMH	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:28	KEB	TAL BUF
Total/NA	Analysis	9251		1	478510	06/18/19 17:25	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W11-1ER
Date Collected: 05/21/19 11:56
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 01:23	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 11:56	FLD	TAL BUF

Client Sample ID: W11-3E
Date Collected: 05/21/19 13:24
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475125	05/30/19 03:20	S1V	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:55	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:53	AMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 16:03	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475783	06/02/19 16:41	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:25	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474278	05/22/19 22:17	SMH	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:28	KEB	TAL BUF
Total/NA	Analysis	9251		1	478510	06/18/19 17:25	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 01:37	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 13:24	FLD	TAL BUF

Client Sample ID: W12-5E
Date Collected: 05/21/19 15:43
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 05:59	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 12:57	AMH	TAL BUF
Total/NA	Prep	3010A			572782	06/03/19 11:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	573404	06/06/19 23:53	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475783	06/02/19 16:41	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:25	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474362	05/23/19 08:56	CLT	TAL BUF
Total/NA	Analysis	410.4		1	477981	06/15/19 10:07	EAG	TAL BUF
Total/NA	Analysis	9038		1	478381	06/18/19 12:11	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-5E

Date Collected: 05/21/19 15:43
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	478510	06/18/19 17:25	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474902	05/28/19 11:09	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474623	05/24/19 12:48	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	477975	06/14/19 01:52	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475328	05/21/19 15:43	FLD	TAL BUF

Client Sample ID: 629E

Date Collected: 05/15/19 14:00
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153899-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474322	05/23/19 18:45	KMN	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475089	05/29/19 06:03	AMH	TAL BUF
Total/NA	Prep	3005A			474385	05/24/19 07:41	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475547	05/30/19 13:01	AMH	TAL BUF
Total/NA	Prep	3010A			572722	06/02/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572945	06/04/19 11:03	BJB	TAL SAV
Total/NA	Analysis	310.2		2	475273	05/29/19 17:40	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477001	06/10/19 10:26	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474278	05/22/19 22:25	SMH	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 16:52	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 14:30	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	474260	05/22/19 19:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474487	05/23/19 17:35	SMH	TAL BUF
Total/NA	Analysis	SM 5310C		1	477495	06/12/19 12:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475331	05/15/19 14:00	FLD	TAL BUF

Client Sample ID: 1008BR2

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475096	05/28/19 19:10	LMH	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475549	05/30/19 13:41	LMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 15:59	BJB	TAL SAV
Total/NA	Analysis	310.2		1	476179	06/04/19 11:59	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477411	06/12/19 08:51	CLT	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 1008BR2

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	474514	05/23/19 21:24	SMH	TAL BUF
Total/NA	Analysis	410.4		1	477980	06/15/19 10:08	DLG	TAL BUF
Total/NA	Analysis	9038		1	478743	06/19/19 20:43	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 15:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	475032	05/29/19 08:19	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475126	05/29/19 12:44	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	478371	06/15/19 20:39	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475342	05/22/19 12:02	FLD	TAL BUF

Client Sample ID: 1008ER2

Date Collected: 05/22/19 11:22
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475096	05/28/19 19:14	LMH	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475549	05/30/19 13:45	LMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 15:43	BJB	TAL SAV
Total/NA	Analysis	310.2		4	476179	06/04/19 12:05	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477257	06/11/19 14:10	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474515	05/23/19 20:12	SMH	TAL BUF
Total/NA	Analysis	410.4		1	478356	06/18/19 10:10	EAG	TAL BUF
Total/NA	Analysis	9038		1	478743	06/19/19 20:47	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 15:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477659	06/13/19 12:47	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475126	05/29/19 12:44	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	479088	06/21/19 02:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475342	05/22/19 11:22	FLD	TAL BUF

Client Sample ID: DUP-GW-03

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475096	05/28/19 19:17	LMH	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475549	05/30/19 13:48	LMH	TAL BUF

Client Sample ID: DUP-GW-03

Date Collected: 05/22/19 12:02
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 16:11	BJB	TAL SAV
Total/NA	Analysis	310.2		1	476179	06/04/19 11:49	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477257	06/11/19 14:11	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474514	05/23/19 21:25	SMH	TAL BUF
Total/NA	Analysis	410.4		1	477980	06/15/19 10:08	DLG	TAL BUF
Total/NA	Analysis	9038		1	478743	06/19/19 20:51	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 15:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	475078	05/29/19 10:34	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475126	05/29/19 12:44	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	478371	06/15/19 21:09	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475342	05/22/19 12:02	FLD	TAL BUF

Client Sample ID: TB-01

Date Collected: 05/22/19 00:00
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-4

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475323	05/31/19 03:12	S1V	TAL BUF

Client Sample ID: W12-4B

Date Collected: 05/22/19 15:21
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475096	05/28/19 19:21	LMH	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475549	05/30/19 13:52	LMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 15:55	BJB	TAL SAV
Total/NA	Analysis	310.2		1	476179	06/04/19 11:49	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477257	06/11/19 14:11	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474515	05/23/19 20:16	SMH	TAL BUF
Total/NA	Analysis	9038		1	479655	06/25/19 10:56	KMF	TAL BUF
Total/NA	Analysis	9251		1	479324	06/23/19 09:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	475078	05/29/19 10:34	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475126	05/29/19 12:44	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	478371	06/15/19 21:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475342	05/22/19 15:21	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-4E

Date Collected: 05/22/19 13:29
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475323	05/31/19 03:38	S1V	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475096	05/28/19 19:25	LMH	TAL BUF
Total/NA	Prep	3005A			474595	05/28/19 07:36	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475549	05/30/19 14:07	LMH	TAL BUF
Total/NA	Prep	3010A			572483	05/31/19 11:17	AJR	TAL SAV
Total/NA	Analysis	6020A		1	572905	06/03/19 16:07	BJB	TAL SAV
Total/NA	Analysis	310.2		1	476957	06/09/19 15:40	KEB	TAL BUF
Total/NA	Analysis	350.1		1	477411	06/12/19 10:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	474514	05/23/19 21:26	SMH	TAL BUF
Total/NA	Analysis	410.4		1	477981	06/15/19 10:07	EAG	TAL BUF
Total/NA	Analysis	9038		1	478743	06/19/19 20:51	KEB	TAL BUF
Total/NA	Analysis	9251		1	479324	06/23/19 09:23	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	475078	05/29/19 10:34	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475126	05/29/19 12:44	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	478371	06/15/19 22:41	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	475342	05/22/19 13:29	FLD	TAL BUF

Client Sample ID: W12-1B

Date Collected: 06/04/19 15:46
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			476458	06/06/19 09:58	VEG	TAL BUF
Total/NA	Analysis	6010C		1	477951	06/14/19 17:13	LMH	TAL BUF
Total/NA	Prep	3005A			476458	06/06/19 09:58	VEG	TAL BUF
Total/NA	Analysis	6010C		1	478106	06/15/19 13:16	LMH	TAL BUF
Total/NA	Prep	3010A			573803	06/11/19 12:51	AJR	TAL SAV
Total/NA	Analysis	6020A		1	574497	06/16/19 16:58	BWR	TAL SAV
Total/NA	Analysis	310.2		2	478736	06/19/19 19:13	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478169	06/17/19 14:14	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476399	06/05/19 20:14	SMH	TAL BUF
Total/NA	Analysis	9038		1	480471	07/01/19 13:11	SRW	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 18:35	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	476976	06/10/19 09:07	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477568	06/13/19 08:10	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 01:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476515	06/04/19 15:46	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-2E

Date Collected: 06/04/19 11:36
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476409	06/06/19 13:31	AEM	TAL BUF
Total/NA	Prep	3005A			476458	06/06/19 09:58	VEG	TAL BUF
Total/NA	Analysis	6010C		1	477951	06/14/19 17:16	LMH	TAL BUF
Total/NA	Prep	3005A			476458	06/06/19 09:58	VEG	TAL BUF
Total/NA	Analysis	6010C		1	478106	06/15/19 13:20	LMH	TAL BUF
Total/NA	Prep	3010A			573803	06/11/19 12:51	AJR	TAL SAV
Total/NA	Analysis	6020A		1	574497	06/16/19 16:55	BWR	TAL SAV
Total/NA	Analysis	310.2		1	478736	06/19/19 18:06	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478169	06/17/19 14:19	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476399	06/05/19 20:16	SMH	TAL BUF
Total/NA	Analysis	9038		1	480471	07/01/19 13:11	SRW	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 18:33	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	476976	06/10/19 09:07	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477032	06/10/19 12:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 01:38	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476515	06/04/19 11:36	FLD	TAL BUF

Client Sample ID: 104D

Date Collected: 06/04/19 14:08
Date Received: 06/05/19 09:00

Lab Sample ID: 480-154465-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			476458	06/06/19 09:58	VEG	TAL BUF
Total/NA	Analysis	6010C		1	477951	06/14/19 17:20	LMH	TAL BUF
Total/NA	Prep	3005A			479062	06/24/19 08:30	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479669	06/25/19 10:58	LMH	TAL BUF
Total/NA	Prep	3010A			573803	06/11/19 12:51	AJR	TAL SAV
Total/NA	Analysis	6020A		1	574497	06/16/19 16:51	BWR	TAL SAV
Total/NA	Analysis	310.2		1	478736	06/19/19 18:06	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478169	06/17/19 14:20	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476398	06/05/19 22:42	SMH	TAL BUF
Total/NA	Analysis	9038		1	480471	07/01/19 13:58	SRW	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 18:33	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	476976	06/10/19 09:07	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477032	06/10/19 12:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 01:53	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476515	06/04/19 14:08	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 626B

Date Collected: 06/05/19 15:03
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476643	06/07/19 16:41	AEM	TAL BUF
Total/NA	Prep	3005A			476716	06/10/19 13:02	KMP	TAL BUF
Total/NA	Analysis	6010C		1	477952	06/14/19 20:06	AMH	TAL BUF
Total/NA	Prep	3005A			476716	06/10/19 13:02	KMP	TAL BUF
Total/NA	Analysis	6010C		1	478108	06/15/19 16:39	AMH	TAL BUF
Total/NA	Prep	3010A			574144	06/13/19 11:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575051	06/20/19 04:53	BJB	TAL SAV
Total/NA	Analysis	310.2		3	478736	06/19/19 20:19	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478358	06/18/19 10:26	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476622	06/06/19 21:25	SMH	TAL BUF
Total/NA	Analysis	9038		1	480636	07/02/19 16:21	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 20:02	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477241	06/11/19 14:17	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477387	06/12/19 10:24	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 04:35	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476758	06/05/19 15:03	FLD	TAL BUF

Client Sample ID: 627A

Date Collected: 06/05/19 12:00
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476643	06/07/19 17:04	AEM	TAL BUF
Total/NA	Prep	3005A			476716	06/10/19 13:02	KMP	TAL BUF
Total/NA	Analysis	6010C		1	477952	06/14/19 20:10	AMH	TAL BUF
Total/NA	Prep	3005A			479265	06/25/19 07:40	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479672	06/25/19 22:02	EMB	TAL BUF
Total/NA	Prep	3010A			574144	06/13/19 11:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575051	06/20/19 05:36	BJB	TAL SAV
Total/NA	Analysis	310.2		1	478736	06/19/19 18:24	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478358	06/18/19 10:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476622	06/06/19 21:26	SMH	TAL BUF
Total/NA	Analysis	9038		1	481176	07/08/19 10:36	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 20:00	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477241	06/11/19 14:17	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477387	06/12/19 10:24	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 04:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476758	06/05/19 12:00	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 628A

Date Collected: 06/05/19 13:10
Date Received: 06/06/19 09:00

Lab Sample ID: 480-154543-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476643	06/07/19 17:27	AEM	TAL BUF
Total/NA	Prep	3005A			476716	06/10/19 13:02	KMP	TAL BUF
Total/NA	Analysis	6010C		1	477952	06/14/19 20:14	AMH	TAL BUF
Total/NA	Prep	3005A			479265	06/25/19 07:40	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479672	06/25/19 22:05	EMB	TAL BUF
Total/NA	Prep	3010A			574144	06/13/19 11:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575051	06/20/19 04:33	BJB	TAL SAV
Total/NA	Analysis	310.2		1	478736	06/19/19 18:24	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478358	06/18/19 10:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476623	06/06/19 18:41	SMH	TAL BUF
Total/NA	Analysis	9038		1	480574	07/02/19 11:39	KEB	TAL BUF
Total/NA	Analysis	9251		1	478737	06/19/19 20:02	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477345	06/12/19 08:06	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477387	06/12/19 10:24	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480208	06/28/19 05:04	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	476758	06/05/19 13:10	FLD	TAL BUF

Client Sample ID: DUP-GW-04

Date Collected: 06/07/19 10:48
Date Received: 06/08/19 11:00

Lab Sample ID: 480-154654-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477118	06/11/19 07:40	JMP	TAL BUF
Total/NA	Analysis	6010C		1	477397	06/11/19 16:38	LMH	TAL BUF
Total/NA	Prep	3010A			574144	06/13/19 11:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575051	06/20/19 05:40	BJB	TAL SAV
Total/NA	Analysis	310.2		2	479096	06/21/19 14:47	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478397	06/18/19 13:57	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476880	06/08/19 14:08	SMH	TAL BUF
Total/NA	Analysis	9038		1	480574	07/02/19 11:39	KEB	TAL BUF
Total/NA	Analysis	9251		1	480960	07/03/19 15:40	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477629	06/13/19 10:28	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477568	06/13/19 08:10	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480987	07/03/19 18:00	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477409	06/07/19 10:48	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: W12-3E
Date Collected: 06/07/19 10:48
Date Received: 06/08/19 11:00

Lab Sample ID: 480-154654-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477118	06/11/19 07:40	JMP	TAL BUF
Total/NA	Analysis	6010C		1	477397	06/11/19 16:42	LMH	TAL BUF
Total/NA	Prep	3010A			574144	06/13/19 11:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575051	06/20/19 04:57	BJB	TAL SAV
Total/NA	Analysis	310.2		2	479096	06/21/19 13:12	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478397	06/18/19 13:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	476880	06/08/19 14:09	SMH	TAL BUF
Total/NA	Analysis	9038		1	480574	07/02/19 13:06	KEB	TAL BUF
Total/NA	Analysis	9251		1	480960	07/03/19 15:41	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477629	06/13/19 10:28	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478072	06/17/19 08:39	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480987	07/03/19 18:43	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477409	06/07/19 10:48	FLD	TAL BUF

Client Sample ID: 104C
Date Collected: 06/10/19 14:42
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477332	06/12/19 09:24	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478452	06/18/19 16:23	LMH	TAL BUF
Total/NA	Prep	3010A			574205	06/13/19 16:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575407	06/23/19 13:44	BWR	TAL SAV
Total/NA	Analysis	310.2		2	479096	06/21/19 14:08	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478397	06/18/19 14:03	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477310	06/11/19 18:51	SMH	TAL BUF
Total/NA	Analysis	9038		1	481176	07/08/19 10:36	KEB	TAL BUF
Total/NA	Analysis	9251		1	480960	07/03/19 16:09	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477629	06/13/19 10:28	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477828	06/14/19 10:52	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480987	07/03/19 22:11	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477261	06/10/19 14:42	FLD	TAL BUF

Client Sample ID: TB-07
Date Collected: 06/10/19 00:00
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-2
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477169	06/11/19 15:31	KMN	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-152997-1
Project/Site: Crossroads ME-Ann GW

Client Sample ID: W9-1E
Lab Sample ID: 480-154721-3
Date Collected: 06/10/19 11:11
Matrix: Ground Water
Date Received: 06/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477332	06/12/19 09:24	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478452	06/18/19 16:30	LMH	TAL BUF
Total/NA	Prep	3010A			574205	06/13/19 16:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575407	06/23/19 13:51	BWR	TAL SAV
Total/NA	Analysis	310.2		2	479096	06/21/19 14:08	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478397	06/18/19 14:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477310	06/11/19 18:53	SMH	TAL BUF
Total/NA	Analysis	9038		1	480855	07/03/19 17:31	SRW	TAL BUF
Total/NA	Analysis	9251		1	480960	07/03/19 16:09	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477629	06/13/19 10:28	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477828	06/14/19 10:52	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480987	07/03/19 22:26	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477261	06/10/19 11:11	FLD	TAL BUF

Client Sample ID: W9-2E
Lab Sample ID: 480-154721-4
Date Collected: 06/10/19 12:26
Matrix: Ground Water
Date Received: 06/11/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477169	06/11/19 15:58	KMN	TAL BUF
Total/NA	Prep	3005A			477332	06/12/19 09:24	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478452	06/18/19 16:27	LMH	TAL BUF
Total/NA	Prep	3010A			574205	06/13/19 16:30	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575407	06/23/19 13:47	BWR	TAL SAV
Total/NA	Analysis	310.2		2	479096	06/21/19 16:54	KEB	TAL BUF
Total/NA	Analysis	350.1		1	478397	06/18/19 14:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477310	06/11/19 18:55	SMH	TAL BUF
Total/NA	Analysis	9038		1	481176	07/08/19 10:54	KEB	TAL BUF
Total/NA	Analysis	9251		1	480960	07/03/19 16:09	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	477629	06/13/19 10:28	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477828	06/14/19 10:52	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	480987	07/03/19 22:40	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477261	06/10/19 12:26	FLD	TAL BUF

Client Sample ID: 310C
Lab Sample ID: 480-154908-1
Date Collected: 06/13/19 16:03
Matrix: Ground Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477893	06/17/19 07:06	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478451	06/18/19 15:24	AMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 310C
Date Collected: 06/13/19 16:03
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			575770	06/26/19 10:05	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575980	06/26/19 18:54	BJB	TAL SAV
Total/NA	Analysis	310.2		1	479576	06/25/19 13:02	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 09:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477923	06/14/19 21:29	SMH	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 15:46	KEB	TAL BUF
Total/NA	Analysis	9251		1	479577	06/25/19 09:40	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	478525	06/19/19 08:26	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478591	06/19/19 12:05	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 01:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477858	06/13/19 16:03	FLD	TAL BUF

Client Sample ID: 310D
Date Collected: 06/13/19 15:25
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477893	06/17/19 07:06	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478451	06/18/19 15:28	AMH	TAL BUF
Total/NA	Prep	3010A			575770	06/26/19 10:05	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575980	06/26/19 18:50	BJB	TAL SAV
Total/NA	Analysis	310.2		1	479576	06/25/19 13:02	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 09:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477923	06/14/19 21:31	SMH	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 14:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	479577	06/25/19 09:40	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	478525	06/19/19 08:26	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478591	06/19/19 12:05	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 02:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477858	06/13/19 15:25	FLD	TAL BUF

Client Sample ID: TRANS
Date Collected: 06/13/19 14:30
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477893	06/17/19 07:06	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478451	06/18/19 15:31	AMH	TAL BUF
Total/NA	Analysis	6020		5	484515	07/25/19 00:00	CTB	
Total/NA	Prep	3010A			575770	06/26/19 10:05	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575980	06/26/19 19:06	BJB	TAL SAV

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TRANS

Date Collected: 06/13/19 14:30
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154908-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.2		1	479576	06/25/19 13:02	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 09:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477920	06/14/19 21:33	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477923	06/14/19 21:33	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480259	06/29/19 10:31	EAG	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 15:46	KEB	TAL BUF
Total/NA	Analysis	9040C		1	478553	06/18/19 14:56	KMF	TAL BUF
Total/NA	Analysis	9251		1	479577	06/25/19 09:40	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	478525	06/19/19 08:26	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478591	06/19/19 12:05	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 02:26	CLA	TAL BUF
Total/NA	Analysis	SM 9222B		1	482266	06/14/19 20:30	CTB	KAT
Total/NA	Analysis	Field Sampling		1	477858	06/13/19 14:30	FLD	TAL BUF

Client Sample ID: 310AW

Date Collected: 06/14/19 12:23
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			478126	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478540	06/18/19 20:39	AMH	TAL BUF
Total/NA	Prep	3010A			574886	06/19/19 12:52	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575573	06/24/19 17:42	BWR	TAL SAV
Total/NA	Analysis	310.2		1	480112	06/27/19 18:01	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 10:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477987	06/15/19 12:12	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477993	06/15/19 12:12	SMH	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 15:46	KEB	TAL BUF
Total/NA	Analysis	9251		1	481390	07/09/19 14:47	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	478811	06/20/19 11:06	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478792	06/20/19 10:15	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 05:09	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	478139	06/14/19 12:23	FLD	TAL BUF

Client Sample ID: 624B

Date Collected: 06/14/19 13:39
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478467	06/19/19 05:22	RJF	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: 624B

Date Collected: 06/14/19 13:39
Date Received: 06/15/19 09:30

Lab Sample ID: 480-154949-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			478126	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478540	06/18/19 20:43	AMH	TAL BUF
Total/NA	Prep	3010A			574886	06/19/19 12:52	AJR	TAL SAV
Total/NA	Analysis	6020A		1	575573	06/24/19 17:46	BWR	TAL SAV
Total/NA	Analysis	310.2		4	480112	06/27/19 17:30	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 10:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477992	06/15/19 11:50	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477994	06/15/19 11:50	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480286	06/30/19 09:30	EAG	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 15:46	KEB	TAL BUF
Total/NA	Analysis	9251		1	481390	07/09/19 14:47	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	481470	07/10/19 11:35	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	478811	06/20/19 11:06	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478792	06/20/19 10:15	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 05:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	478139	06/14/19 13:39	FLD	TAL BUF

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Ground Water	Sulfate
9038		Water	Sulfate
9040C		Ground Water	pH
9040C		Ground Water	Temperature
9251		Ground Water	Chloride
9251		Water	Chloride
Field Sampling		Ground Water	Depth to Water from Top of Casing
Field Sampling		Ground Water	Field EH/ORP
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Ground Water Elevation
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Temperature
Field Sampling		Ground Water	Turbidity
Field Sampling		Water	Depth to Water from Top of Casing
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Ground Water Elevation
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity
SM 1030E		Ground Water	Anion/Cation Balance
SM 1030E		Ground Water	Calculated TDS
SM 1030E		Ground Water	TDS Ratio
SM 1030E		Ground Water	TDS to Conductivity Ratio
SM 1030E		Water	Anion/Cation Balance
SM 1030E		Water	Calculated TDS
SM 1030E		Water	TDS Ratio
SM 1030E		Water	TDS to Conductivity Ratio

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	GA00006	09-25-20

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	
6020A	Metals (ICP/MS)	SW846	TAL SAV
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
SM 9222B	Coliforms, Total (Membrane Filter)	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074
KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-152997-1	W11-6E	Ground Water	05/03/19 14:08	05/04/19 09:00	
480-153454-1	1040B	Ground Water	05/13/19 14:31	05/14/19 09:45	
480-153454-2	1041B	Ground Water	05/13/19 14:35	05/14/19 09:45	
480-153454-3	1134B	Ground Water	05/13/19 16:00	05/14/19 09:45	
480-153454-4	617A	Ground Water	05/13/19 13:08	05/14/19 09:45	
480-153454-5	617C	Ground Water	05/13/19 13:01	05/14/19 09:45	
480-153454-6	618AR	Ground Water	05/13/19 11:39	05/14/19 09:45	
480-153454-7	618CR	Ground Water	05/13/19 11:40	05/14/19 09:45	
480-153454-8	TB-01	WQ	05/13/19 00:00	05/14/19 09:45	
480-153523-1	629B	Ground Water	05/14/19 11:25	05/15/19 10:00	
480-153523-2	630E	Ground Water	05/14/19 14:53	05/15/19 10:00	
480-153523-3	TB-01	WQ	05/14/19 00:00	05/15/19 10:00	
480-153687-1	620A	Ground Water	05/16/19 12:12	05/17/19 09:00	
480-153687-2	DUP-GW-01	Ground Water	05/16/19 12:12	05/17/19 09:00	
480-153687-3	620C	Ground Water	05/16/19 13:11	05/17/19 09:00	
480-153687-4	TB-01	WQ	05/16/19 00:00	05/17/19 09:00	
480-153688-1	630B	Ground Water	05/16/19 14:45	05/17/19 09:00	
480-153688-2	W11-1B	Ground Water	05/16/19 16:03	05/17/19 09:00	
480-153688-3	TB-01	WQ	05/16/19 00:00	05/17/19 09:00	
480-153786-1	106CR	Ground Water	05/20/19 12:25	05/21/19 09:30	
480-153786-2	106DR	Ground Water	05/20/19 13:20	05/21/19 09:30	
480-153786-3	106WR	Ground Water	05/20/19 14:55	05/21/19 09:30	
480-153786-4	TB-01	WQ	05/20/19 00:00	05/21/19 09:30	
480-153786-5	W11-2E	Ground Water	05/20/19 12:08	05/21/19 09:30	
480-153786-6	W11-4E	Ground Water	05/20/19 13:31	05/21/19 09:30	
480-153786-7	W11-5B	Ground Water	05/20/19 16:04	05/21/19 09:30	
480-153786-8	W11-5E	Ground Water	05/20/19 14:59	05/21/19 09:30	
480-153888-1	101C	Ground Water	05/21/19 14:52	05/22/19 09:15	
480-153888-2	107BR	Ground Water	05/21/19 13:48	05/22/19 09:15	
480-153888-3	107CR	Ground Water	05/21/19 14:45	05/22/19 09:15	
480-153888-4	DUP-GW-02	Ground Water	05/21/19 11:56	05/22/19 09:15	
480-153888-5	TB-01	WQ	05/21/19 00:00	05/22/19 09:15	
480-153888-6	W11-1ER	Ground Water	05/21/19 11:56	05/22/19 09:15	
480-153888-7	W11-3E	Ground Water	05/21/19 13:24	05/22/19 09:15	
480-153888-8	W12-5E	Ground Water	05/21/19 15:43	05/22/19 09:15	
480-153899-1	629E	Ground Water	05/15/19 14:00	05/16/19 09:10	
480-153929-1	1008BR2	Ground Water	05/22/19 12:02	05/23/19 09:30	
480-153929-2	1008ER2	Ground Water	05/22/19 11:22	05/23/19 09:30	
480-153929-3	DUP-GW-03	Ground Water	05/22/19 12:02	05/23/19 09:30	
480-153929-4	TB-01	WQ	05/22/19 00:00	05/23/19 09:30	
480-153929-5	W12-4B	Ground Water	05/22/19 15:21	05/23/19 09:30	
480-153929-6	W12-4E	Ground Water	05/22/19 13:29	05/23/19 09:30	
480-154465-1	W12-1B	Water	06/04/19 15:46	06/05/19 09:00	
480-154465-2	W12-2E	Water	06/04/19 11:36	06/05/19 09:00	
480-154465-3	104D	Water	06/04/19 14:08	06/05/19 09:00	
480-154543-1	626B	Ground Water	06/05/19 15:03	06/06/19 09:00	
480-154543-2	627A	Ground Water	06/05/19 12:00	06/06/19 09:00	
480-154543-3	628A	Ground Water	06/05/19 13:10	06/06/19 09:00	
480-154654-1	DUP-GW-04	Ground Water	06/07/19 10:48	06/08/19 11:00	
480-154654-2	W12-3E	Ground Water	06/07/19 10:48	06/08/19 11:00	
480-154721-1	104C	Ground Water	06/10/19 14:42	06/11/19 09:00	
480-154721-2	TB-07	WQ	06/10/19 00:00	06/11/19 09:00	
480-154721-3	W9-1E	Ground Water	06/10/19 11:11	06/11/19 09:00	

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154721-4	W9-2E	Ground Water	06/10/19 12:26	06/11/19 09:00	
480-154908-1	310C	Ground Water	06/13/19 16:03	06/14/19 09:00	
480-154908-2	310D	Ground Water	06/13/19 15:25	06/14/19 09:00	
480-154908-3	TRANS	Ground Water	06/13/19 14:30	06/14/19 09:00	
480-154949-1	310AW	Ground Water	06/14/19 12:23	06/15/19 09:30	
480-154949-2	624B	Ground Water	06/14/19 13:39	06/15/19 09:30	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-152997-1
Project/Site: Crossroads ME-Ann GW

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Calcium	Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Water	Total/NA	mg/L	0.030	0.05
6010C	Lead	Ground Water	Total/NA	mg/L	0.0050	0.01
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Potassium	Ground Water	Total/NA	mg/L	0.20	0.50
6010C	Potassium	Water	Total/NA	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Water	Total/NA	mg/L	0.40	1.0
6020A	Aluminum	Ground Water	Total/NA	mg/L	0.050	0.1
6020A	Aluminum	Water	Total/NA	mg/L	0.050	0.1
9040C	pH	Ground Water	Total/NA	SU	0.05	0.1
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
9251	Chloride	Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10
SM 2540C	Total Dissolved Solids	Water	Total/NA	mg/L	5.0	10

June 25, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5950
Project ID: Waste Management Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/25/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-1
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
GARAGE	AQ	13-JUN-19 14:00:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:55:00	SM 5210B	14-JUN-19 954	BR		

Katahdin Analytical Services SM5950 page 0000003 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-2
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	13-JUN-19 16:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	83. mg/L	80.	9.3	SM 5210B	WG255414	19-JUN-19 09:59:00	SM 5210B	14-JUN-19 958	BR		

Katahdin Analytical Services SM5950 page 0000004 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-3
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TOTMAN	AQ	13-JUN-19 13:33:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:51:00	SM 5210B	14-JUN-19 950	BR		

Katahdin Analytical Services SM5950 page 0000005 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-5
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
45SD	AQ	13-JUN-19 11:35:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	4.4 mg/L	3.0	0.35	SM 5210B	WG255414	19-JUN-19 09:48:00	SM 5210B	14-JUN-19 947	BR		

Katahdin Analytical Services SM5950 page 0000006 of 0000012

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG255414	SM 5210B	19-JUN-19	14-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG255414-2	LCS	WG255414	19-JUN-19	14-JUN-19	mg/L	198	210	104	85-115	

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM5950
Waste Management
Project: Crossroads
Client PO:
Report Date: 25-JUN-19

Lab ID: SM5950-1 **Client ID:** GARAGE **Collected Date:** 13-JUN-19 14:00:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

Lab ID: SM5950-2 **Client ID:** TANK **Collected Date:** 13-JUN-19 16:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	75 /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	Colilert/Quantitray

Lab ID: SM5950-4 **Client ID:** TRANS **Collected Date:** 13-JUN-19 14:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: TEST AMERICA	KAS PM: GN	Sampled By: LC NA	
Project: CROSSROADS	KIMS Entry By: GN	Delivered By: NA	
KAS Work Order#: SM 5950	KIMS Review By: SC	Received By: ~~GB~~ NA	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/13/19 1945	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 2.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included			✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman, Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 5950**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives										
					Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
					BOD	T-Collform	E-Coliform								
	Garage	6/13/2019 1400	AQ	2	1	1									
	TANK	6/13/2019 1630	AQ	2	1		1								
	Totman	6/13/2019 1333	AQ	1	1										
	TRANS	6/13/2019 1430	AQ	1		1									
	45SD	6/13/2019 1135	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	6/13/19 1945				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 14, 2019
08:46 AM

Login Number: SM5950

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	2.9
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5950-1	GARAGE	13-JUN-19 14:00	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-2	TANK	13-JUN-19 16:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_ECOLI_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-3	TOTMAN	13-JUN-19 13:33	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-4	TRANS	13-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			

SM5950-5	45SD	13-JUN-19 11:35	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

Total Samples: **5** ***Total Analyses:*** **7**

July 29, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM7305
Project ID: Waste management Crossroads ME
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): July 17, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

07/29/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-001
Report Date: 7/29/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
TOTMAN	AQ	No(Total)	07/13/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	AnalyticalMethod	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	0.00484	mg/L	0.00100	5	0.0002	SW846 6020	7/24/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-002
Report Date: 7/29/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
NEW OFFICE	AQ	No(Total)	07/14/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	AnalyticalMethod	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	U 0.00100	mg/L	0.00100	5	0.0002	SW846 6020	7/24/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-003
Report Date: 7/29/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
TRANS	AQ	No(Total)	07/13/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	AnalyticalMethod	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	0.0570	mg/L	0.00100	5	0.0002	SW846 6020	7/25/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	

PREPARATION BLANK REPORT

Sample ID: PBWMG23IMW1 **Batch ID:** MG23IMW1 **Work Order:** SM7305

Element Name	Flag	Result	Units	PQL	MDL	File
URANIUM	U	0.000200	mg/L	0.00100	0.000015	LMG23A

U The analyte was not detected in the sample at a level greater than the method detection limit.

J The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSWMG23IMW1 **Batch ID:** MG23IMW1 **Work Order:** SM7305

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (%)		File
URANIUM	0.100	0.100	mg/L	100.0		80	120	LMG23A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE QC SUMMARY

Sample ID: SM7305-002

Symbol	Sample Result	Units	Spike Added	Spike Result	Spike Rec.(%)	Note	Spike Dup Added	Spike Duplicate Result	Spike Duplicate Rec.(%)	Note	RPD(%)	Note
U U	0.00100	mg/L	0.100	0.103	103 %		0.100	0.101	101 %		1.96 %	

M1 Matrix spike recovery is outside the laboratory's acceptance range indicating potential sample matrix interference and potential bias of reported value for this parameter.

M2 Matrix spike recovery is outside the laboratory's acceptance range. The spike concentration is significantly below the sample concentration and cannot be distinguished from the sample signal.

3 Matrix spike analysis cannot be quantified due to severe matrix interferences.

R1 Precision of replicate analysis as measured by RPD is outside the laboratory's acceptance range for this parameter. Sample homogeneity may be a factor.

5 Because of the large uncertainty associated with measurements made near the detection level, there is no acceptance range for relative percent difference.

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Test America	KAS PM:	Sampled By: Client
Project:	KIMS Entry By:	Delivered By: FedEx
KAS Work Order#: SM7305	KIMS Review By:	Received By: JCB
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 7/17/19 0955

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	/				
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				/	Temp (°C): N/A — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?				/	Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?				/	The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?				/	
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				/	
Soil/Sediment:					
Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	/				
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

SM7305

Chain of Custody Record

TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128039-25869.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			Preservation Codes: A - HCL, M - Hexane
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual DW TOTMAN, Garage, Ne	Project #: 48003284			
Site: Maine	SSOW#:			

480-154910 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	350.1, 410.4	6010C, 6020A	8260C - (MOD) Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6010C, 6020A, 7470A	9222B - Coliform, Total	Total Number of conta	Special Instructions/Note:
Preservation Code:							A	S	D	A	A	N	N	N	N	N	N	D	R		
Trip Blank-01				Water																	
TOTMAN	6/13/19	1333	G	Water	N	N	12	1	1	3	2	0	1	1	X	2	1			12	* BOD was Rec'd
Garage		1400	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	SUBBED TO Katahdin
New Office		1620	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	* T-coliforms have been subbed to Katahdin

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/13/19 1800	Company: KAS	Received by:	Date/Time: 6/14/19 0700	Company: KAS
Relinquished by:	Date/Time: 7-15-19 1615	Company: KAS	Received by:	Date/Time: 7.17.19 0955	Company: KAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6

Ver: 01/16/2019

Katahdin Analytical Services SM7305 page 0000010 of 0000013

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAM?	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207) 831.9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:
Address: 357 Mercer Road	Due Date Requested:			
City: Norridgewock	TAT Requested (Business Days)			
State, Zip: ME, 04957				
Phone: 000-0000	PO #: Purchase Order not required			
Email:	WO #			
Project Name: Crossroads ME/	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (Al)	Cation_Anion - (MOD) Local Method	BOD, Coliform	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
310AW	6/14/19	1223	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
624B		1339	G	Water				1	2	1	1	X	2	1	3	1	1	X		13	
NEW OFFICE		1630	G	Water				1	2	1	1	X	2	1	3	1		1	0		* BOD AND coliform Subbed to KAS.
										plus		6020A, 7470A									bottle for PH analysis

480-154949 Chain of Custody

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
F - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/14/19 1800	KAS		6/15/19 0930	TAS
2		7-15-19 1615	QUAD			
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6

Katahdin Analytical Services SM7305 page 0000011 of 0000013

Chain of Custody Record

TestAmerica

480-154908 Chain of Custody

Client Information	Sampler: ADAMS/AMAN	Lab PM: Denise Giglia	C:
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: Denise.Giglia@testamericainc.com	
Company: Waste Management - Norridgewock ME - (Crossroads)		Parameter(s) Requested	
Address: 357 Mercer Road	Due Date Requested:		
City: Norridgewock	TAT Requested (Business Days)		
State, Zip: ME, 04957			
Phone: 000-0000	PO #: Purchase Order not required		
Email:	WO #:		
Project Name: Crossroads ME/	Project #:		
Site: Maine	SSOW#:		

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2 SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling (1312) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	9222 B (MOD) Appendix Volitiles - 9222 B	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method	9040 pH	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N	
310 C	6/13/19	1603	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
310 D	↓	1525	G	Water	N	N	1	1	2	1	1	X	2	1			1	Y		10	
TLANS	↓	1430	G	Water				1A	2	1	1	X	2	1	0	1	1	x	1	11	coliform subbed to Katahdin
																	Plus 6020A - Uranium				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/13/19 1800	Company: LAS	Received by:	Date/Time: 6/14/19 0900	Company: TAL
Relinquished by:	Date/Time: 7-15-19 1615	Company: LAD	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.1 2.6

Katahdin Analytical Services SM7305 page 0000012 of 0000013

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jul. 18, 2019
08:22 AM

Login Number: SM7305

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	Merge results for EDD.
CHECK NO.	:	
CLIENT PO#	:	48003284
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	n/a
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste management Crossroads ME
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM7305-1	TOTMAN	13-JUL-19 13:33	17-JUL-19			29-JUL-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	09-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	09-JAN-20	250mL Plastic+HNO3		

SM7305-2	NEW OFFICE	14-JUL-19 16:30	17-JUL-19			29-JUL-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	10-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	10-JAN-20	250mL Plastic+HNO3		

SM7305-3	TRANS	13-JUL-19 14:30	17-JUL-19			29-JUL-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	09-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	09-JAN-20	250mL Plastic+HNO3		

Total Samples: *3* ***Total Analyses:*** *6*

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: NICK ADAMS	Lab PM: ~~Johnson, Janine~~ DENISE GIGLIA	Carrier Tracking No(s):	COC No: 480-82199-20176.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: janine.johnson@testamericainc.com		Page: Page 1 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: 321280166128			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

480-152997 Chain of Custody

Preservation Codes:
J - DI Water
K - EDTA
L - EDA
V - MCAA
W - ph 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C, 7470A	Cation_Anion - (MOD) Local Method	SM5310D - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	D5174_91 - Uranium	9222B - Coliform, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	A	S	D	R		
~~104C~~ W11-6E	5/3/19	1408	G	Water	N	N	1	1	X	2	1	1	X	2	1	3		1			PLEASE CONFIRM
~~104B~~				Water																	BOTTLE SET. I DIDN'T
~~106DR~~				Water																	HAVE SHIPPING SHEET
~~107CR~~				Water																	WITH ME, THIS
~~310AW~~				Water																	IS AN OLD CHAIN
~~310C~~				Water																	BECAUSE I DIDN'T
~~310D~~				Water																	HAVE A CURRENT
~~W11-1B~~				Water																	ONE WITH ME, I ALSO
~~W11-1E~~				Water																	DIDN'T REALIZE I HAD
~~W11-4E~~				Water																	NO TRIP BLANKS W/
W11-5B				Water																	ME.

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	5/3/19 1800	KAS	[signature]	5/4/19 0900	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: #1 2.4

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7/31/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / LOVERO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.1
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 7
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284
Site: Maine	SSOW#:

480-153454 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatil	350.1, 410.4	FieldSampling - (MOD) Field Para	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~104S~~ 618AR	5/13/19	1139	G	Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~104D~~ 618CR		1140		Water			1	1	X	2	1	1	X	2	1	1	3			13	
~~106DR~~ 617A		1308		Water				1	X	2	1	1	X	2	1	1	3			13	
~~107CR~~ 617C		1301		Water				1	X	2	1	1	X	2	1	1	3	1		13	
~~310AW~~ TB				Water													2			2	
~~310C~~				Water																	
~~310D~~				Water																	
~~W11-1B~~				Water																	
~~W11-1E~~				Water																	
~~W11-4E~~				Water																	
~~W11-5B~~				Water																	

I - Ice | U - Acetone
J - DI Water | V - MCAA
K - EDTA | W - pH 4-5
L - EDA | Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/13/19 1800	Company: KAS	Received by:	Date/Time: 5/14/19 0945	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.2, 2.5

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / LOIZERO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.3
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 7
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284
Site: Maine	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2; 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~W11-5E~~ 1040B	5/13/19	1431	G	Water	N	N	1	1	X	2	1	1	X	2	1	1	3			13	
~~W12-1B~~ 1041B		1435		Water				1	X	2	1	1	X	2	1	1	3	1		13	
~~W12-1E~~ 1134B		1600		Water			1	1	X	2	1	1	X	2	1	1	3			13	
~~W12-3E~~ TB				Water													1			1	
~~W12-4B~~				Water																	
~~W9-1E~~				Water																	
~~DUP-GW-04~~				Water																	
~~101C~~				Water																	
~~1040B~~				Water																	
~~107BR~~				Water																	
~~1134B~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/13/19 1800	KAS	[signature]	5/14/19 0945	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.2, 2.5

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Loureiro	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

480-153523 Chain of Custody

I - Ice; J - DI Water; K - EDTA; L - EDA; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Param	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~618CR~~ 629B	5/14/19			Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~620C~~ 630E				Water	N	N	1	1	X	2	1	1	X	2	1	1	3			13	
~~626B~~ TB				Water																2	
~~627A~~				Water																	
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~W11-2E~~				Water																	
~~W11-3E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Agustin Loureiro	5/14/19 1800	KAS			
				5-15-19 1000	TAS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8 #1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A LOUREIRO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~618CR~~ 620A	5/16/19	1212	G	Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~620C~~ DUP-GW-01	↓	1212	↓	Water				1	X	2	1	1	X	2	1	1	3	1*		13	* NOTE THAT DUP-01
~~626B~~ 620C	↓	1311	↓	Water	↓	↓	↑	1	X	2	1	1	X	2	1	1	3			13	BOTTLE FOR 350.1
~~627A~~ TB				Water																2	NEEDS TO INCLUDE 410.4 AS WELL.
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~W11-2E~~				Water																	
~~W11-3E~~				Water																	

480-153687 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Agustin Loureiro	5/16/19 1800	KAS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-17-19 900	Company: KAS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.6 #1

Ver: 01/16/2019

7/31/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A. LOUREIRO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284
Site: Maine	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~618CR~~ 630B	5/16/19	1445	G	Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~620C~~ W11-1B	↓	1603	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
~~626B~~ TB				Water																1	
~~627A~~				Water																	
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
DUP-GW-01				Water																	
~~DUP-GW-02~~				Water																	
~~W11-2E~~				Water																	
~~W11-3E~~				Water																	

480-153688 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Agustin Loureiro	Date/Time: 5/16/19 1800	Company: KAS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-17-19 900	Company DAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.9 #1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.7
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 7 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

480-153786 Chain of Custody

I - Ice
J - DI Water
K - EDTA
L - EDA
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (All)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Param	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~W11-6E~~ 106CR		1225	G	Water	N	N		1	X	2	1	1		2	1	1		1	X	10	
~~W12-2E~~ 106DR		1320	↓	Water	↓	↓	1	1	X	2	1	1	X	2	1	1				10	
~~W9-2E~~ 106WR		1455	↓	Water	↓	↓		1	X	2	1	1		2	1	1		1	X	10	
~~DUP-GW-03~~				Water																	
~~1041B~~				Water																	
~~617A~~				Water																	
~~617C~~				Water																	
~~618AR~~				Water																	
~~620A~~				Water																	
~~624B~~				Water																	
~~629B~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/20/19 1800	KAS	[signature]	5/21/19 0930	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.0, 3.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A. LOUREIRO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.9
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 9 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (All)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~630B~~ W11-2E	5/20/19	1208	G	Water	W	N	1	1	X	2	1	1	X	2	1	1	3			13	
~~W12-4E~~ W11-4E		1331		Water			1	1	X	2	1	1	X	2	1	1				10	
~~1008BR2~~ W11-5E		1459		Water			1	1	X	2	1	1	X	2	1	1				10	
~~1008ER2~~ W11-5B		1604		Water			1	1	X	2	1	1	X	2	1	1				10	
~~106GR~~ TB				Water													3			3	
~~106WR~~				Water																	
~~W12-5E~~				Water																	
~~Trip Blank-01~~				Water																	
~~Trip Blank-02~~				Water																	
~~Trip Blank-03~~				Water																	
Trip Blank-04				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/20/19 1800	KAS	Cwallace	5/21/19 0930	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.0; 3.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.4
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 4 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:	Analysis Requested		
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 6020A	9056A - Chloride, Total	9056A - Fluoride	353.2 Nitrate	310.2 Alk	6020A Total Metals ICPMS (Al)	8260C (MOD) App I VOAs	353.2, 410.4	Field Sampling (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D		N	A	N	N	N	N			
~~W11-5E~~ 107BR	5/21/19	1348	G	Water	N	N	1	1	X	2	1	1	X	2	1	1	3			13	
~~W12-1B~~ ~~107BR~~ W11-3E	|	1324	|	Water	|	|	1	1	X	2	1	1	X	2	1	1	3			10 13	
~~W12-1E~~ ~~W12-5E~~ 101C	↓	1452	↓	Water	↓	↓	1	1	X	2	1	1	X	2	1	1	3	X	X	10 13	
~~W12-3E~~ TB				Water													3			3	
~~W12-4B~~				Water																	
~~W9-1E~~				Water																	
DUP-~~GW~~-04				Water																	
~~101C~~				Water																	
~~1040B~~				Water																	
~~107BR~~				Water																	
~~1134B~~				Water																	

480-153888 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	5/21/19 1800	KAS		5/22/19 0915	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.8, 3.1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14226-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.11
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 11 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
Trip ~~Blank 06~~ W11-1ER	5/21/19	1156	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
Trip ~~Blank 06~~ DUP-02		1156		Water			1	1	X	2	1	1	X	2	1	1				10	
~~Trip Blank 07~~ 107CR		1445		Water			1	1	X	2	1	1	X	2	1	1				10	
~~TRANS~~ W12-5E		1543		Water				1	X	2	1	1	X	2	1	1		1	X	10	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/21/19 1800	Company: KAS	Received by:	Date/Time: 5/22/19 0815	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.8, 3.1

Ver: 01/16/2019

153899

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Carbon_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.3_Nitrite, 9056, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (All)	8260D - (MOD) Appendix I Volatiles	350.1, 415.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~6180R~~ 629E	5/15/19	1400	G	Water	N	N	1	1	X	2	1	1	X	2	1	1	3			5	
~~6298~~ TB				Water													3				
~~626B~~				Water																	
~~627A~~				Water																	
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~WH-2E~~				Water																	
~~WH-3E~~				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/15/19 1800	Company: KAS	Received by:	Date/Time: 5-16-19 09:10	Company: TA BUF
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A. LOUREIRO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284			
Site: Maine	SSOW#:			

480-153929 Chain of Custody

I - Ice; J - DI Water; K - EDTA; L - EDA; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Param	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~18A~~ ~~630B~~	~~5/14/19~~		G	Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~20A~~ ~~630E~~	↓		G	Water	N	N	1	1	X	2	1	1	X	2	1	1	3			13	
~~26A~~ ~~FB~~				Water																	
~~27A~~				Water																	
~~28A~~ 1008BR2	5/22/19		G	Water	N	N		1	X	2	1	1		2	1	1		1	X	10	
~~29E~~ GW-DUP-03				Water	N	N		1	X	2	1	1		2	1	1		1	X	10	
~~30E~~ 1008ER2				Water	N	N		1	X	2	1	1		2	1	1		1	X	10	
~~DUP-GW-01~~ W12-4B				Water	N	N	1	~~1~~	~~X~~	2	1	1	X	2	1	1				10	
~~DUP-GW-02~~ ~~W12-HE~~				Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~W11-2E~~				Water																	
~~W11-3E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: ~~5/14/19~~ 1800	Company: KTS	Received by: Carlisle	Date/Time: 5/23/19 0930	Company: TAB
Relinquished by:	Date/Time: 5/22/19	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.0 2.7

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A. LOUREIRO	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128051-25868.5
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 7
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Groundwater (4)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - Total Metals ICP (13)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	8260C - (MOD) Appendix I Volatiles	350.1, 410.4	FieldSampling - (MOD) Field Parameters	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	A	S	N		
~~629B~~ 629B	~~5/14/19~~		G	Water	N	N		1	X	2	1	1	X	2	1	1	3	1		13	
~~629C~~ 629C			G	Water				1	X	2	1	1	X	2	1	1	3			13	
~~629B~~ DUP-GW-01 MW-46	5/22/19		G	Water			*	1	X	2	1	1	X	2	1	1	3	1		13	
~~628A~~ TB				Water																3	
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~W11-2E~~				Water																	
~~W11-3E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: ~~5/14/19~~ 1800	Company: KAS	Received by:	Date/Time: 5/23/19 0930	Company: TAB
Relinquished by:	Date/Time: 5/22/19	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.0, 2.7

Ver: 01/16/2019

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Agustin Loureiro	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: 207-831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:
Address: 357 Mercer Road	Due Date Requested:			
City: Norridgewock	TAT Requested (Business Days)			
State, Zip: ME, 04957				
Phone: 000-0000	PO #: Purchase Order not required			
Email:	WO #:			
Project Name: Crossroads ME/	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, S=solid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method		Total Number of containers	Special Instructions/Note:
Preserv Cont Code:							S	D	A	N	N	N	N	N	A	S	D	N	N		
W12-1B	6/4/19	1546	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
W12-2E	6/4/19	1136	G	Water	N	N	1	1	2	1	1	X	2	1	3		1	X		13	
104D	6/4/19	1408	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	

480-154465 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Agustin Loureiro	Date/Time: 6/4/19 1800	Company Katahdin Analytical	Received by: [signature]	Date/Time: 06/05/19 0900	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.6 3.2 #1 FCP

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Agustin Loureiro	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: 207-831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:

Company: Waste Management - Norridgewock ME - (Crossroads)

Address: 357 Mercer Road
City: Norridgewock
State, Zip: ME, 04957
Phone: 000-0000
Email:
Project Name: Crossroads ME/
Site: Maine

Due Date Requested:
TAT Requested (Business Days)
PO #: Purchase Order not required
WO #:
Project #:
SSOW#:

480-154543 Chain of Custody

F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
R - [illegible]
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method		Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
626B	6/5/19	1503	G	Water	N	N	1	1	2	1	1	X	2	1	3		1	X		13	
627A	6/5/19	1200	G	Water	N	N	1	1	2	1	1	X	2	1	3		1	X		13	
628A	6/5/19	1310	G	Water	N	N	1	1	2	1	1	X	2	1	3		1	X		13	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Agustin Loureiro	Date/Time: 6/5/19 1800	Company Katahdin Analytical	Received by: [signature]	Date/Time: 6/6/19 0900	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: #1 2.8

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:

Address: 357 Mercer Road	Due Date Requested:	Parameter(s) Requested	Preservation Codes:
City: Norridgewock	TAT Requested (Business Days)		A -HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P- Na2O4S E - NaHSO4 Q - Na2 SO3 F - MeOH R- Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: ME, 04957			
Phone: 000-0000	PO #: Purchase Order not required		
Email:	WO #:		
Project Name: Crossroads ME/	Project #:		
Site: Maine	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method		Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
W12-3E	6/7/19	1048	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
GW-DUP-04	↓	↓	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
				Water																	

480-154654 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Adams	6/7/19 1700	RAS	Cavalliere	6/8/19 1100	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.5

7/31/2019

Chain of Custody Record

TestAmerica

480-154721 Chain of Custody

Client Information	Sampler: LOUREIRO	Lab PM: Denise Giglia	Carrier Tracking:
Client Contact: Sherwood McKenney	Phone: (207)831-9250	E-Mail: Denise.Giglia@testamericainc.com	
Company: Waste Management - Norridgewock ME - (Crossroads)			
Address: 357 Mercer Road	Due Date Requested:		
City: Norridgewock	TAT Requested (Business Days)		
State, Zip: ME, 04957			
Phone: 000-0000	PO #: Purchase Order not required		
Email:	WO #:		
Project Name: Crossroads ME/	Project #:		
Site: Maine	SSOW#:		

Parameter(s) Requested

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (Al)	Cation_Anion - (MOD) Local Method		Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
W9-1E	6/10/19	1111	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
W9-2E		1226	G	Water	N	N	1	1	2	1	1	X	2	1	3		1	X		13	
104C		1442	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
TB															3					3	

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/10/19 1800	KAS	[signature]	6/11/19 0900	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3

Chain of Custody Record

TestAmerica
ENTAL TESTING

480-154908 Chain of Custody

Client Information	Sampler: ADAMS/AMAN	Lab PM: Denise Giglia	Ca:
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: Denise.Giglia@testamericainc.com	
Company: Waste Management - Norridgewock ME - (Crossroads)			
Address: 357 Mercer Road	Due Date Requested:		
City: Norridgewock	TAT Requested (Business Days)		
State, Zip: ME, 04957			
Phone: 000-0000	PO #: Purchase Order not required		
Email:	WO #:		
Project Name: Crossroads ME/	Project #:		
Site: Maine	SSOW#:		

Parameter(s) Requested

Preservation Codes:
A -HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P- Na2O4S, Q - Na2 SO3, R- Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	~~8260B (MOD) Appendix Volatiles~~ 9222 B	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method	9040 pH	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
310 C	6/13/19	1603	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
310 D	↓	1525	G	Water	N	N	1	1	2	1	1	X	2	1			1	Y		10	
TRANS	↓	1430	G	Water				1	2	1	1	X	2	1	0	1	1	X	1	11	coliform subbed to Kafahdin
									Plus 6020A - Uranium												

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	6/13/19 1800	KAS	[signature]	6/14/19 0900	TAL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.6

7/31/2019

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:

Address: 357 Mercer Road	Due Date Requested:
City: Norridgewock	TAT Requested (Business Days)
State, Zip: ME, 04957	
Phone: 000-0000	PO #: Purchase Order not required
Email:	WO #:
Project Name: Crossroads ME/	Project #:
Site: Maine	SSOW#:

Parameter(s) Requested

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (Al)	Cation_Anion - (MOD) Local Method	BOD, Coliform	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
310AW	6/14/19	1223	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
624B	"	1339	G	Water				1	2	1	1	X	2	1	3	1	1	X		13	
NEW OFFICE	"	1630	G	Water				1	2	1	1	X	2	1	3	1		1	0		* BOD AND coliform Subbed to KAS.
										plus 6020A, 7470A											bottle for PH analysis

480-154949 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 6/14/19 1800	Company KAS	Received by:	Date/Time: 6/15/19 0930	Company TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.6

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | | | | |

Sample Point: GW11-6F (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 03 19	13:42	:25	0	13	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2748.9 (ft/msl)	13.72 (ft)	261.17 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
200.0 (ft)	3.49 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 03 19	6.24	130	7.2				

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/03/19	NICK ADAMS		EAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 104B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 13 19	14:01	:30	01	84	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2531.11 (ft/msl)

Depth to Water (DTW) (from TOC): 1075 (ft)

Groundwater Elevation (site datum, from TOC): 2423.6 (ft/msl)

Total Well Depth (from TOC): 1900 (ft)

Stick Up (from ground elevation): 3.35 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 13 19	5.56	224	72	05	15	1046	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ~~NA~~ 05 NE — Outlook: Cloudy — Precipitation: Y or ~~N~~

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	Agustin Lovera	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 104 B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/13/19	1409	:25	N/A	28	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
254.68 (ft/msl)	N/A (ft)	N/A (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
150.0 (ft)	2.48 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	6.35	392	18.5	2.1	9.5	177	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL
Odor: NONE
Color: CLEAR
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: NE 0-5
Outlook: CLOUDY
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

* CANNOT MEASURE STATIC DUE TO BROKEN PVC CASING ABOVE WATER LEVEL.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 1 3 3 4 B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/13/19	15:28	:30	24	72	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ~

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: T

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2453 (ft/msl)	21.77 (ft)	2233.60 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2780 (ft)	0.83 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	8.44	241	8.0	0.7	3.7	676	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL

Odor: NONE

Color: CLEAR

Other:

Weather Conditions (required daily, or as conditions change):

Direction/Speed: NE 0-5

Outlook: CLOUDY

Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	AGUSTIN LOVERO	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: GW7N (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/13/19	1232	:35	011	18	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2686.46 (ft/msl)

Depth to Water (DTW) (from TOC): 376 (ft)

Groundwater Elevation (site datum, from TOC): 26490 (ft/msl)

Total Well Depth (from TOC): 1450 (ft)

Stick Up (from ground elevation): 3.36 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	7.91	379	9.1	4.2	3.5	106.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 0-5 Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | Sample Point: 617C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 13 19	1240	1:40	1.7	8.8	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2690.4 (ft/msl)	11.23 (ft)	2578.1 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20.10 (ft)	3.64 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 13 19	6.70	*287.9	8.5	3.0	0.7	71.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 0-5 Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

SPEC COND = 279

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	AGUSTIN LOVERO	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: MW-18R
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/13/19	1188	:30	2.03	15	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2672 (ft/msl)	969 (ft)	2752 (ft/msl)	1550 (ft)	2.91 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	6.16	599	10.1	1.2	4.9	657	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL
Odor: None
Color: Clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: NE 0-5
Outlook: CLOUDY
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	~~NICK ADAMS~~		KAS
5/13/19	AGUSTIN COUREDO	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: CC18CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/13/19	1059	140	05	144	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B — X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
2671.2	140.0	2531.2

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
630.0	2.92	2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	8.07	1690	8.4	0.0	3.8	120	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 0-5 — Outlook: CLOUDY — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	NICK ADAMS	N Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 62913 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/14/19	1051	:35	02	56	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2651.4 (ft/msl)	1673 (ft)	2484.1 (ft/msl)	3660 (ft)	3.75 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/19	7.76	184	9.3	1.6	4.9	134.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear
Odor: none
Color: Clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: NA
Outlook: Cloudy
Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/14/19	Agustin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 630E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/14/19	1426	:25	01	13	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B — X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2695.7 (ft/msl)

Depth to Water (DTW) (from TOC): 773 (ft)

Groundwater Elevation (site datum, from TOC): 2618.4 (ft/msl)

Total Well Depth (from TOC): 1200 (ft)

Stick Up (from ground elevation): 4.27 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/14/19	5.95	123	6.8	1.9	5.1	173.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA — Outlook: Cloudy — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/14/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 620A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/16/19	1136	:35	510 ML	28 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2665.9 (ft/msl)	864 (ft)	2579.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1450 (ft)	69.0 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/16/19	6.75	293	10.4	1.8	3.2	127.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear
Odor: none
Color: clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: N/A
Outlook: Cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/16/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GWDUP-01

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/16/19	1220	1:50			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [ ] Y or [ ] N

Filter Device: [ ] Y or [ ] N [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device [ ]

Filter Type: [ ] A-In-line Disposable B-Pressure C-Vacuum X-Other

X-Other:

Sample Tube Type: [ ] A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/16/19	8.50	212	9.9	0.9	2.2	102.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N/A Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/16/19	Agustin Loureiro		KAS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 620C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/16/19	1220	:50	3000 ML	56 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

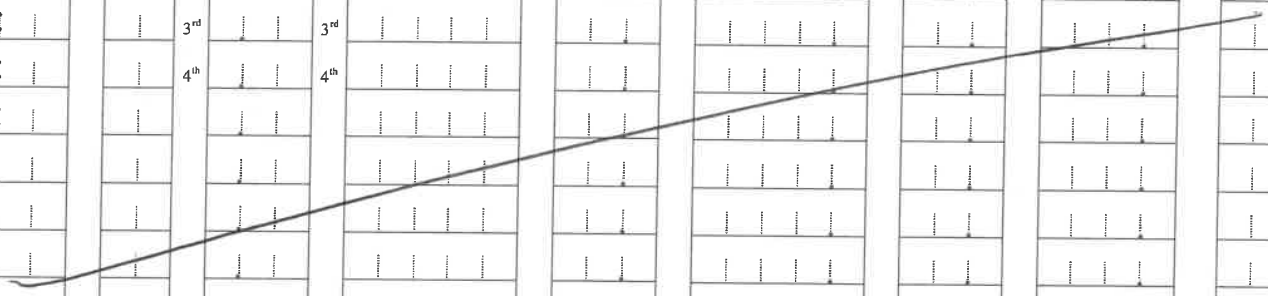
WELL DATA

Well Elevation (at TOC): 2617.4 (ft/msl)
Depth to Water (DTW) (from TOC): 8.65 (ft)
Groundwater Elevation (site datum, from TOC): 2530.9 (ft/msl)
Total Well Depth (from TOC): 42.15 (ft)
Stick Up (from ground elevation): 2.98 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize



Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/16/19	8.50	212	9.9	0.9	2.2	102.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear
Odor: None
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: N/A
Outlook: Cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/16/19	Agustin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 630B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/16/19	1404	:40	.03 L	112 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____)

Sample Tube Type: ____ (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26985 (ft/msl)	1813 (ft)	25172 (ft/msl)	5400 (ft)	395 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
05/16/19	8.46	1801	10.4	57	0.6	146.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: Clear — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 E — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/16/19	Agustin Loureiro	[signature]	KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W1 1-1B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 16 19	1527	:35	01	126	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
27254	2036	25218

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
37100	284	2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 16 19	8 4 4	1 7 0	8 7	0 5	0 9	1 1 2 8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N/A — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/16/19	Agustin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 106CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05 20 19	1114	1:10	01	154	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 26627 (ft/msl)
Depth to Water (DTW) (from TOC): 1945 (ft)
Groundwater Elevation (site datum, from TOC): 24682 (ft/msl)
Total Well Depth (from TOC): 3260 (ft)
Stick Up (from ground elevation): 263 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 20 19	725	483	94	00	36	-400	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	NICK ADAMS		KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 106DR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 20 19	1249	:30	93	48	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2661.5 (ft/msl)	19.30 (ft)	2468.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
576.00 (ft)	2.65 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 20 19	7.06	531	9.9	0.0	5.0	35.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 106WR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05 20 19	1359	:55	10	220	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26580 (ft/msl)	1872 (ft)	24708 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26600 (ft)	267 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 20 19	634	233	8.1	24	97	914	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: W11-25 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/20/19	1117	:50	01	25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 26663 (ft/msl)

Depth to Water (DTW) (from TOC): 456 (ft)

Groundwater Elevation (site datum, from TOC): 26207 (ft/msl)

Total Well Depth (from TOC): 1200 (ft)

Stick Up (from ground elevation): 293 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
05/19	7.19	252	12.7	08	1.9	1088	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: Clear — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA — Outlook: Cloudy — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	Gus Loureiro	[signature]	KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-45 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/20/19	1240	:50	01	25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) / N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

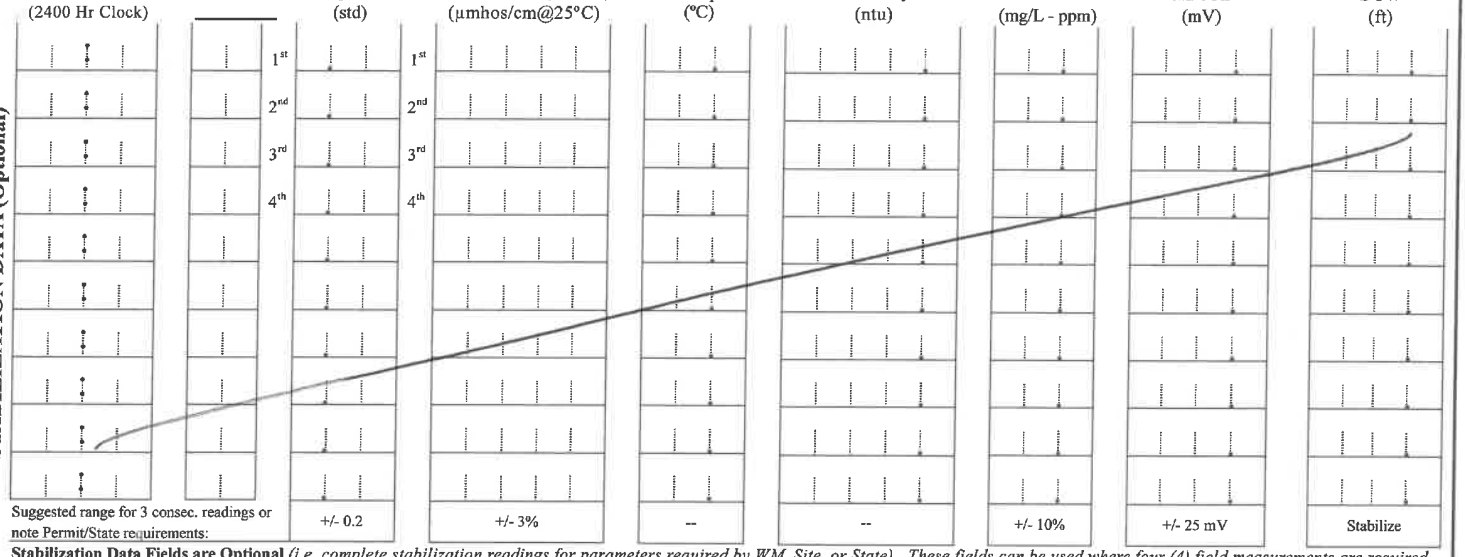
Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27721 (ft/msl)	2044 (ft)	25673 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
8400 (ft)	337 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize



Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/19	721	557	144	09	37	867	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	Hugh Worrell	Gus Loureiro	KRS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-58 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/20/19	1522	:40	03	88	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2731.19 (ft/msl)	2495 (ft)	2488.34 (ft/msl)	6000 (ft)	279 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/20/19	8.40	166	14.2	3.5	0.9	446	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA — Outlook: Sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	Gus Lovelio	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: W11-5S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
05/20/19	1417	:40	01.	4.4	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
Sample Tube Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2738 (ft/msl)
Depth to Water (DTW) (from TOC): 1344 (ft)
Groundwater Elevation (site datum, from TOC): 24984 (ft/msl)
Total Well Depth (from TOC): 2300 (ft)
Stick Up (from ground elevation): 298 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/20/19	8.16	1811	13.6	3.9	2.0	656	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ~~AAA~~ Clear
Odor: none
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: N/A
Outlook: SUNY
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/20/19	Gus Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 101K (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
05 21 19	1406	:45	04	6.3	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2725 (ft/msl)	2079 (ft)	2514 6 (ft/msl)	4200 (ft)	170 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 21 19	7.77	169	10.3	1.7	1.2	883	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 15-20 NW Outlook: cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	Agustin Loreiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 107BR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/21/19	1257	:50	01	150	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: C
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2661.3 (ft/msl)
Depth to Water (DTW) (from TOC): 203.9 (ft)
Groundwater Elevation (site datum, from TOC): 2457.4 (ft/msl)
Total Well Depth (from TOC): 1800 (ft)
Stick Up (from ground elevation): 2.81 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/21/19	6.81	737	10.2	1.2	2.9	-349	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL
Odor: NONE
Color: CLEAR
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: NW 15-20
Outlook: SUNNY
Precipitation: (N) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 107CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/21/19	1414	:30	03	15	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2657.1 (ft/msl)
Depth to Water (DTW) (from TOC): 200.4 (ft)
Groundwater Elevation (site datum, from TOC): 2456.5 (ft/msl)
Total Well Depth (from TOC): 360.0 (ft)
Stick Up (from ground elevation): 3.7 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/21/19	7.84	400	13.3	0.0	8.1	243	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL
Odor: NONE
Color: CLEAR
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: NW 10-15
Outlook: SUNNY
Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GW-DUP-02 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 21 19	6 6 1	2 6 4	1 4 2	1 9	2 0	1 1 8 6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 20 NW — Outlook: sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

TAKEN AT WELLER

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	Agustin Lavelin	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: W11-1ER
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/21/19	1105	:50	01	25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 27207 (ft/msl)
Depth to Water (DTW) (from TOC): 727 (ft)
Groundwater Elevation (site datum, from TOC): 26480 (ft/msl)
Total Well Depth (from TOC): 1600 (ft)
Stick Up (from ground elevation): 3576 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/21/19	6.61	264	14.2	1.9	2.0	118.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear
Odor: None
Color: Clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: 20 NW
Outlook: Sunny
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

GW - DUP-02 TAKEN HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | | | | |

Sample Point: W11-35 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/21/19	12:~~50~~33	:60	01	2.5	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2619.3 (ft/msl)

Depth to Water (DTW) (from TOC): 36.3 (ft)

Groundwater Elevation (site datum, from TOC): 2583.0 (ft/msl)

Total Well Depth (from TOC): 150.0 (ft)

Stick Up (from ground elevation): 3.09 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
05/21/19	7.13	286	13.3	2.9	2.9	728	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 15-20 NW Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-SE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/21/19	15:22	:20	01	80	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
2611.1	89.7	2521.4

Total Well Depth (from TOC): 1700 (ft) — Stick Up (from ground elevation): 2.00 (ft) — Casing ID: 2 (in) — Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/21/19	7.24	256	6.9	0.90	2.0	740	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 10-15 — Outlook: SUNNY — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/21/19	NICK ADAMS		KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 629E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
051419*	1220	20	01	10	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

Filter Type: ____ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other: ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2658 (ft/msl)

Depth to Water (DTW) (from TOC): 1589 (ft)

Groundwater Elevation (site datum, from TOC): 24979 (ft/msl)

Total Well Depth (from TOC): 2100 (ft)

Stick Up (from ground elevation): 390 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
051519	628	267	82	33	68	884	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

WELL WAS PURGED ON 5/14/19 AND WAS INTENDED TO BE DUP'D. HOWEVER IT RAN DRY. SO SAMPLING WAS CANCELLED AND WELL RECHARGED OVERNIGHT AND WAS SAMPLED 5/15/19 WITHOUT A DUP. FIELD PARAMETERS WERE COLLECTED DURING PURGE ON 5/14 AND PRE/POST COLLECTION ON 5/15/19.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		IES

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 1008 BR2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05 22 19	1136	2.5	05	20	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2711.52 (ft/msl)	11.93 (ft)	2599.59 (ft/msl)	~~Ce~~ 120 (ft)	2.52 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 22 19	7.88	1620	10.2	00	5.9	436	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 N Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05, 22, 19	Agustin Lourciro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 1008ER2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 22 19	1120	:25	01	20	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 27150 (ft/msl)

Depth to Water (DTW) (from TOC): 1058 (ft)

Groundwater Elevation (site datum, from TOC): 26092 (ft/msl)

Total Well Depth (from TOC): 1900 (ft)

Stick Up (from ground elevation): 2.50 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 22 19	676	558	103	00	24	405	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 N — Outlook: sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/22/19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GW-DUP03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: [ ] — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: [ ] — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 22 19	6 7 6	5 5 8	1 0 3	0 0	2 4	4 0 5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: None Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 N Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/22/19	Agustin Lowero		EAS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-4B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
05 22 19	14:10	1:10	02	252	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ~~A-In-line Disposable~~ ~~B-Pressure~~ ~~C-Vacuum~~ ~~X-Other~~

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2517.49 (ft/msl)	17.57 (ft)	2349.19 (ft/msl)	39.00 (ft)	3.50 (ft)	2 (~~in~~)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 22 19	8.30	1771	12.4	0.5	0.7	34	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 N Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/22/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: W12-4E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/22/19	13:03	:25	01	13	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2519.99 (ft/msl)
Depth to Water (DTW) (from TOC): 6.36 (ft)
Groundwater Elevation (site datum, from TOC): 245.63 (ft/msl)
Total Well Depth (from TOC): 100.0 (ft)
Stick Up (from ground elevation): 2.45 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/22/19	6.36	187	14.2	05	4.1	636	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear
Odor: none
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: 10 N
Outlook: sunny
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/22/19	Agustin Loureiro	[signature]	EAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-18 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
05/06/19	1510	:35	01	140	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or N; 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2520.7 (ft/msl)	9.17 (ft)	2429 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1909 (ft)	1.40 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/06/19	7.20	274	7.2	02	08	98.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 N Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/06/19	Agustin Lozano	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-2E

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/04/19	1118 ~~06~~	:30	01 L	33 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2689.1 (ft/msl)	712 (ft)	2617.9 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1000 (ft)	2.41 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/04/19	4.41	45	8.5	20	1.20	1274	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/04/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 104D
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
080419	1247	1:20	04	4.8	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
25647 (ft/msl)	686 (ft)	24961 (ft/msl)	5280 (ft)	122 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 19	8.35	242	12.4	1.0	2.4	465	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/4/19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 6260B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 04 19	14:27	:35	01	77	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: —

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
25698 (ft/msl)	1239 (ft)	24459 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1800 (ft)	309 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 04 19	6.14	90	11.2	03	4.4	511	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/04/19	Agustin Lourenzo	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 627A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/04/19	1109	:50	05	25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
24199 (ft/msl)	201 (ft)	23498 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
57650 (ft)	289 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/04/19	822	166	170	02	31	574	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/04/19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 628A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/04/19	1229	40	04	48	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2421.9 (ft/msl)

Depth to Water (DTW) (from TOC): 257 (ft)

Groundwater Elevation (site datum, from TOC): 2396.2 (ft/msl)

Total Well Depth (from TOC): 515.50 (ft)

Stick Up (from ground elevation): 3.31 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/04/19	8.14	1492	11.2	1.4	0.6	521	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: None Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/04/19	Agustin Lopez	[signature]	KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GW-DUP-04 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/07/19	6.62	329	11.4	0.0	1.9	93.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

COLLECTED AT WIZ-3E

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/07/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-3E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
06 07 19	1002	:45	.01	2.3	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2462 (ft/msl)	5.54 (ft)	2408 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
100 (ft)	2.70 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 07 19	6.62	329	11.4	0.0	1.9	93.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

GW-DUP-04 TAKEN HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/07/19	NICK ADAMS	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: MW-104C
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
05/10/19	1351	:50	5.02	5.6	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
25650 (ft/msl)	694 (ft)	24956 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
528C (ft)	122 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/10/19	750	280	129	00	15	189	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/10/19	Agustin Loule:o	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W9-1E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~ L)	ACTUAL VOL PURGED (~~Gallons~~ L)	WELL VOLs PURGED
05/10/19	1030	:40	.01	20	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26030 (ft/msl)	291 (ft)	25739 (ft/msl)	1500 (ft)	300 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/10/19	7.40	280	20.1	00	2.6	107.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/10/19	Agustin Louleiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W9-2E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08/10/19	1155	:30	01	15	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	4.51 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/10/19	7.16	263	23.5	01	4.5	552	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/10/19	Agustin Lorcito		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 310C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06/13/19	1542	:20	0.5	60	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 19.4 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/13/19	8.38	1150	18.3	3.3	6.9	199.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 0-5 Outlook: CLOUDY Precipitation (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/13/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: MW 60 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/13/19	1449	:35	17403	35	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27270 (ft/msl)	058 (ft)	27212 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
18500 (ft)	150 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	7.87	1499	94	60	4.9	210	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal **Odor:** None **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** SE 0-5 **Outlook:** Cloudy **Precipitation:** (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	Katrina Aman	Katrina Aman	KRS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: TRANS (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
05/13/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A

Sampling Device: ~~A~~F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/13/19	8.68	133	9.5	0.8	3.2	210.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: Cloudy Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PURGED 15 MINUTES BEFORE SAMPLING

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	Katrina Aman	Katrina Aman	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 31 0AW

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06/14/19	1202	:20	01	20	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2753.8 (ft/msl)	348 (ft)	2719.0 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1500 (ft)	3.68 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/14/19	8.44	1164	10.4	00	7.1	98.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/14/19	NICK ADAMS		KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 624B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06/14/19	1318	:20	02	80	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
2495.4	74.9	2421.4

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
3200	3.27	2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/14/19	6.65	649	9.2	0.90	0.4	152.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/14/19	NICK ADAMS	D Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: NEW OFFICE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06 14 19	14:14	:15			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: A — Sampling Device: A

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl) — Depth to Water (DTW) (from TOC) ____ (ft) — Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft) — Stick Up (from ground elevation) ____ (ft) — Casing ID ____ (in) — Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 4 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 14 19	9.16	1163	99	1.1	7.4	+229.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM — Outlook: CLOUDY — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/14/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 152997
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 152997
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/07/19 01:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153454
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153454
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/16/19 02:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153523
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153523
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/29/19 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153687
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153687
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/22/19 11:26 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153688
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153688
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/29/19 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153786
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153786
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/29/19 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153888
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153888
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/30/19 01:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153899
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	
COC is present.	False	
COC is filled out in ink and legible.	False	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153899
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/24/19 06:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	Refer to Job Narrative for details.no ICOC received
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153929
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 153929
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 05/30/19 01:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154465
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154465
List Number: 2
Creator: Elwell, Devin M

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/07/19 04:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154543
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KATAHDIN
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154543
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/12/19 12:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154654
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154654
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/12/19 12:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154721
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154721
List Number: 2
Creator: Nobles, Terry G

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/12/19 05:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154908
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154908
List Number: 2
Creator: Bland, Brian C

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/17/19 03:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154949
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	kas
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-152997-1

Login Number: 154949
List Number: 2
Creator: Weston, Pamela

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/18/19 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-153594-1
Client Project/Site: Crossroads ME: Annual SW
Sampling Event: Annual Surface Water (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
6/13/2019 4:56:24 PM
Katelyn Ferguson, Project Management Assistant I
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Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Qualifiers

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-153594-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-153594-1

Comments
No additional comments.

Receipt
The samples were received on 5/16/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.9º C.

Metals
Method(s) 6010C: The Total Potassium results reported for the following samples do not concur with results previously reported for this site: SW-101 (480-153594-2), SW-204 (480-153594-6) and SW-B (480-153594-10). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Calcium, Magnesium, Manganese, and Sodium results reported for the following sample do not concur with results previously reported for this site: SW-801 (480-153594-7). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Calcium, Magnesium, and Potassium results reported for the following sample do not concur with results previously reported for this site: SW-9 (480-153594-8). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Iron and Manganese results reported for the following sample do not concur with results previously reported for this site: SW-A (480-153594-9). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Iron, Manganese, and Potassium results reported for the following sample do not concur with results previously reported for this site: SW-C (480-153594-11). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6020A: The Total Lead results reported for the following samples do not concur with results previously reported for this site: SW-101 (480-153594-2) and SW-C (480-153594-11). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 310.2: The results reported for the following sample do not concur with results previously reported for this site: SW-801 (480-153594-7). Reanalysis was performed, and the result(s) confirmed.

Method(s) 350.1: The results reported for the following sample do not concur with results previously reported for this site: SW-B (480-153594-10). Reanalysis was performed, and the result(s) confirmed.

Method(s) 353.2: The results reported for the following sample do not concur with results previously reported for this site: SW-801 (480-153594-7). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Client Sample ID: DUP-SW-01 — Lab Sample ID: 480-153594-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.13		0.080		mg/L	1		6010C	Total/NA
Barium	0.0068		0.0050		mg/L	1		6010C	Total/NA
Calcium	6.3		0.15		mg/L	1		6010C	Total/NA
Iron	0.20		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.012		0.010		mg/L	1		6010C	Total/NA
Potassium	0.58		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	13		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	27		10		mg/L	1		410.4	Total/NA
Chloride	26		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	62		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.6				NTU	1		Field Sampling	Total/NA
Temperature	12.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.41				SU	1		Field Sampling	Total/NA
Specific Conductance	147				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	122.5				millivolts	1		Field Sampling	Total/NA
Flow	1.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.58				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-101 — Lab Sample ID: 480-153594-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.28		0.080		mg/L	1		6010C	Total/NA
Barium	0.0066		0.0050		mg/L	1		6010C	Total/NA
Calcium	2.8		0.15		mg/L	1		6010C	Total/NA
Iron	0.55		0.030		mg/L	1		6010C	Total/NA
Magnesium	0.59		0.24		mg/L	1		6010C	Total/NA
Manganese	0.052		0.010		mg/L	1		6010C	Total/NA
Potassium	0.35		0.20		mg/L	1		6010C	Total/NA
Sodium	5.2		0.40		mg/L	1		6010C	Total/NA
Ammonia as N	0.18		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	39		10		mg/L	1		410.4	Total/NA
Chloride	10	BL	0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	40		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	9.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.2				NTU	1		Field Sampling	Total/NA
Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.23				SU	1		Field Sampling	Total/NA
Specific Conductance	76				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	76.8				millivolts	1		Field Sampling	Total/NA
Flow	5.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.82				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-102 — Lab Sample ID: 480-153594-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.12		0.080		mg/L	1		6010C	Total/NA
Barium	0.0069		0.0050		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: SW-102 (Continued) — Lab Sample ID: 480-153594-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	6.4		0.15		mg/L	1		6010C	Total/NA
Iron	0.20		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.012		0.010		mg/L	1		6010C	Total/NA
Potassium	0.57		0.20		mg/L	1		6010C	Total/NA
Sodium	13		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	13		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	29		10		mg/L	1		410.4	Total/NA
Chloride	26	BL	0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	60		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.6				NTU	1		Field Sampling	Total/NA
Temperature	12.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.41				SU	1		Field Sampling	Total/NA
Specific Conductance	147				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	122.5				millivolts	1		Field Sampling	Total/NA
Flow	1.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.58				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-201 — Lab Sample ID: 480-153594-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.20		0.080		mg/L	1		6010C	Total/NA
Calcium	8.2		0.15		mg/L	1		6010C	Total/NA
Iron	0.35		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.047		0.010		mg/L	1		6010C	Total/NA
Potassium	0.64		0.20		mg/L	1		6010C	Total/NA
Sodium	5.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	22		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	34		10		mg/L	1		410.4	Total/NA
Chloride	11	BL	0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	43		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	8.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field pH	6.53				SU	1		Field Sampling	Total/NA
Specific Conductance	105				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	67.0				millivolts	1		Field Sampling	Total/NA
Flow	2.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-203 — Lab Sample ID: 480-153594-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.13		0.080		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Iron	0.13		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.030		0.010		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-203 (Continued)

Lab Sample ID: 480-153594-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	2.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	50		10		mg/L	1		310.2	Total/NA
Chloride	2.4		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	48		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.2				NTU	1		Field Sampling	Total/NA
Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA
Specific Conductance	141				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	85.4				millivolts	1		Field Sampling	Total/NA
Flow	1.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.08				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-204

Lab Sample ID: 480-153594-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.33		0.080		mg/L	1		6010C	Total/NA
Barium	0.0067		0.0050		mg/L	1		6010C	Total/NA
Calcium	4.9		0.15		mg/L	1		6010C	Total/NA
Iron	0.56		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.062		0.010		mg/L	1		6010C	Total/NA
Potassium	0.49		0.20		mg/L	1		6010C	Total/NA
Sodium	5.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	32		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	32		10		mg/L	1		410.4	Total/NA
Chloride	9.6		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	33		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.9		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.4				NTU	1		Field Sampling	Total/NA
Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field pH	6.69				SU	1		Field Sampling	Total/NA
Specific Conductance	92				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	62.9				millivolts	1		Field Sampling	Total/NA
Flow	2.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.70				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-801

Lab Sample ID: 480-153594-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.098		0.080		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.10		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.026		0.010		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	1.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	40		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	12		10		mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-801 (Continued)

Lab Sample ID: 480-153594-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	35		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	4.3				NTU	1		Field Sampling	Total/NA
Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.11				SU	1		Field Sampling	Total/NA
Specific Conductance	146				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	174.7				millivolts	1		Field Sampling	Total/NA
Flow	1.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	11.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.30				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-9

Lab Sample ID: 480-153594-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.13		0.080		mg/L	1		6010C	Total/NA
Calcium	3.9		0.15		mg/L	1		6010C	Total/NA
Iron	0.29		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.0		0.24		mg/L	1		6010C	Total/NA
Potassium	0.67		0.20		mg/L	1		6010C	Total/NA
Sodium	1.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	11		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	28		10		mg/L	1		410.4	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	27		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.1				NTU	1		Field Sampling	Total/NA
Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.49				SU	1		Field Sampling	Total/NA
Specific Conductance	77				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	75.0				millivolts	1		Field Sampling	Total/NA
Flow	Still				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-A

Lab Sample ID: 480-153594-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.34		0.080		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Iron	0.83		0.030		mg/L	1		6010C	Total/NA
Magnesium	4.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.17		0.010		mg/L	1		6010C	Total/NA
Potassium	1.3		0.20		mg/L	1		6010C	Total/NA
Sodium	2.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	50		10		mg/L	1		310.2	Total/NA
Nitrate	0.34		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	18		10		mg/L	1		410.4	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	56		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	40		5.2		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	9.3				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-A (Continued) — Lab Sample ID: 480-153594-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Temperature	10.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.50				SU	1		Field Sampling	Total/NA
Specific Conductance	146				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	82.9				millivolts	1		Field Sampling	Total/NA
Flow	TSTM				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-B — Lab Sample ID: 480-153594-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.29		0.080		mg/L	1		6010C	Total/NA
Barium	0.0065		0.0050		mg/L	1		6010C	Total/NA
Calcium	5.4		0.15		mg/L	1		6010C	Total/NA
Iron	0.24		0.030		mg/L	1		6010C	Total/NA
Magnesium	1.6		0.24		mg/L	1		6010C	Total/NA
Manganese	0.025		0.010		mg/L	1		6010C	Total/NA
Potassium	0.57		0.20		mg/L	1		6010C	Total/NA
Sodium	4.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	14		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.083		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	31		10		mg/L	1		410.4	Total/NA
Chloride	8.5		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	38		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.7		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.7				NTU	1		Field Sampling	Total/NA
Temperature	8.0				Degrees C	1		Field Sampling	Total/NA
Field pH	5.79				SU	1		Field Sampling	Total/NA
Specific Conductance	85				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	100.7				millivolts	1		Field Sampling	Total/NA
Flow	3.0				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-C — Lab Sample ID: 480-153594-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.26		0.080		mg/L	1		6010C	Total/NA
Barium	0.0055		0.0050		mg/L	1		6010C	Total/NA
Calcium	1.6		0.15		mg/L	1		6010C	Total/NA
Iron	0.19		0.030		mg/L	1		6010C	Total/NA
Magnesium	0.68		0.24		mg/L	1		6010C	Total/NA
Manganese	0.015		0.010		mg/L	1		6010C	Total/NA
Potassium	0.28		0.20		mg/L	1		6010C	Total/NA
Sodium	3.6		0.40		mg/L	1		6010C	Total/NA
Chemical Oxygen Demand	34		10		mg/L	1		410.4	Total/NA
Chloride	6.6		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	23		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	8.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.5				NTU	1		Field Sampling	Total/NA
Temperature	7.9				Degrees C	1		Field Sampling	Total/NA
Field pH	5.62				SU	1		Field Sampling	Total/NA
Specific Conductance	62				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Client Sample ID: SW-C (Continued)

Lab Sample ID: 480-153594-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Field EH/ORP	103.8				millivolts	1		Field Sampling	Total/NA
Flow	Still				ft/sec	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.45				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-SW-01

Date Collected: 05/15/19 12:30
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-1

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**		0.080		mg/L		05/20/19 07:22	05/24/19 18:29	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 18:29	1
Barium	**0.0068**		0.0050		mg/L		05/20/19 07:22	05/24/19 18:29	1
Calcium	**6.3**		0.15		mg/L		05/20/19 07:22	05/24/19 18:29	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 18:29	1
Iron	**0.20**		0.030		mg/L		05/20/19 07:22	05/24/19 18:29	1
Magnesium	**1.1**		0.24		mg/L		05/20/19 07:22	05/24/19 18:29	1
Manganese	**0.012**		0.010		mg/L		05/20/19 07:22	05/24/19 18:29	1
Potassium	**0.58**		0.20		mg/L		05/20/19 07:22	05/24/19 18:29	1
Sodium	**12**		0.40		mg/L		05/20/19 07:22	05/24/19 18:29	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 18:29	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**13**		10		mg/L			05/29/19 10:26	1
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 10:47	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:16	1
Chemical Oxygen Demand	**27**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 13:20	1
Chloride	**26**		0.50		mg/L			06/11/19 13:04	1
Total Dissolved Solids	**62**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 09:56	1
Total Organic Carbon	**6.4**		1.0		mg/L			06/06/19 12:39	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.6**				NTU			05/15/19 12:30	1
Temperature	**12.2**				Degrees C			05/15/19 12:30	1
Field pH	**6.41**				SU			05/15/19 12:30	1
Specific Conductance	**147**				umhos/cm			05/15/19 12:30	1
Field EH/ORP	**122.5**				millivolts			05/15/19 12:30	1
Flow	**1.0**				ft/sec			05/15/19 12:30	1
Oxygen, Dissolved	**10.0**				mg/L			05/15/19 12:30	1
Depth to Water from Top of Casing	**0.58**				ft			05/15/19 12:30	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Client Sample ID: SW-101

Date Collected: 05/15/19 15:25
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-2

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.28**		0.080		mg/L		05/20/19 07:22	05/24/19 18:47	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 18:47	1
Barium	**0.0066**		0.0050		mg/L		05/20/19 07:22	05/24/19 18:47	1
Calcium	**2.8**		0.15		mg/L		05/20/19 07:22	05/24/19 18:47	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 18:47	1
Iron	**0.55**		0.030		mg/L		05/20/19 07:22	05/24/19 18:47	1
Magnesium	**0.59**		0.24		mg/L		05/20/19 07:22	05/24/19 18:47	1
Manganese	**0.052**		0.010		mg/L		05/20/19 07:22	05/24/19 18:47	1
Potassium	**0.35**		0.20		mg/L		05/20/19 07:22	05/24/19 18:47	1
Sodium	**5.2**		0.40		mg/L		05/20/19 07:22	05/24/19 18:47	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 18:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 10:26	1
Ammonia as N	**0.18**		0.020		mg/L as N			05/31/19 13:34	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:17	1
Chemical Oxygen Demand	**39**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 13:23	1
Chloride	**10**	**BL**	0.50		mg/L			06/09/19 11:10	1
Total Dissolved Solids	**40**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:31	1
Total Organic Carbon	**9.2**		1.0		mg/L			06/06/19 12:56	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.2**				NTU			05/15/19 15:25	1
Temperature	**10.7**				Degrees C			05/15/19 15:25	1
Field pH	**6.23**				SU			05/15/19 15:25	1
Specific Conductance	**76**				umhos/cm			05/15/19 15:25	1
Field EH/ORP	**76.8**				millivolts			05/15/19 15:25	1
Flow	**5.0**				ft/sec			05/15/19 15:25	1
Oxygen, Dissolved	**8.5**				mg/L			05/15/19 15:25	1
Depth to Water from Top of Casing	**0.82**				ft			05/15/19 15:25	1

Client Sample ID: SW-102

Date Collected: 05/15/19 12:30
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-3

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.12**		0.080		mg/L		05/20/19 07:22	05/24/19 18:50	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 18:50	1
Barium	**0.0069**		0.0050		mg/L		05/20/19 07:22	05/24/19 18:50	1
Calcium	**6.4**		0.15		mg/L		05/20/19 07:22	05/24/19 18:50	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 18:50	1
Iron	**0.20**		0.030		mg/L		05/20/19 07:22	05/24/19 18:50	1
Magnesium	**1.2**		0.24		mg/L		05/20/19 07:22	05/24/19 18:50	1
Manganese	**0.012**		0.010		mg/L		05/20/19 07:22	05/24/19 18:50	1
Potassium	**0.57**		0.20		mg/L		05/20/19 07:22	05/24/19 18:50	1
Sodium	**13**		0.40		mg/L		05/20/19 07:22	05/24/19 18:50	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 18:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**13**		10		mg/L			05/29/19 10:26	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:35	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:26	1
Chemical Oxygen Demand	**29**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 13:23	1
Chloride	**26**	**BL**	0.50		mg/L			06/09/19 11:10	1
Total Dissolved Solids	**60**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:00	1
Total Organic Carbon	**6.2**		1.0		mg/L			06/06/19 13:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.6**				NTU			05/15/19 12:30	1
Temperature	**12.2**				Degrees C			05/15/19 12:30	1
Field pH	**6.41**				SU			05/15/19 12:30	1
Specific Conductance	**147**				umhos/cm			05/15/19 12:30	1
Field EH/ORP	**122.5**				millivolts			05/15/19 12:30	1
Flow	**1.0**				ft/sec			05/15/19 12:30	1
Oxygen, Dissolved	**10.0**				mg/L			05/15/19 12:30	1
Depth to Water from Top of Casing	**0.58**				ft			05/15/19 12:30	1

Client Sample ID: SW-201
Date Collected: 05/15/19 15:10
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-4
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.20**		0.080		mg/L		05/20/19 07:22	05/24/19 18:54	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 18:54	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 18:54	1
Calcium	**8.2**		0.15		mg/L		05/20/19 07:22	05/24/19 18:54	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 18:54	1
Iron	**0.35**		0.030		mg/L		05/20/19 07:22	05/24/19 18:54	1
Magnesium	**1.5**		0.24		mg/L		05/20/19 07:22	05/24/19 18:54	1
Manganese	**0.047**		0.010		mg/L		05/20/19 07:22	05/24/19 18:54	1
Potassium	**0.64**		0.20		mg/L		05/20/19 07:22	05/24/19 18:54	1
Sodium	**5.3**		0.40		mg/L		05/20/19 07:22	05/24/19 18:54	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 18:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**22**		10		mg/L			05/29/19 10:26	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:36	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:27	1
Chemical Oxygen Demand	**34**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 13:23	1
Chloride	**11**	**BL**	0.50		mg/L			06/09/19 11:10	1
Total Dissolved Solids	**43**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:27	1
Total Organic Carbon	**8.0**		1.0		mg/L			06/06/19 13:29	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.3**				NTU			05/15/19 15:10	1
Temperature	**10.8**				Degrees C			05/15/19 15:10	1
Field pH	**6.53**				SU			05/15/19 15:10	1
Specific Conductance	**105**				umhos/cm			05/15/19 15:10	1
Field EH/ORP	**67.0**				millivolts			05/15/19 15:10	1
Flow	**2.0**				ft/sec			05/15/19 15:10	1
Oxygen, Dissolved	**10.0**				mg/L			05/15/19 15:10	1

Client Sample ID: SW-203

Date Collected: 05/15/19 13:40
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-5

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**		0.080		mg/L		05/20/19 07:22	05/24/19 19:09	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:09	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 19:09	1
Calcium	**16**		0.15		mg/L		05/20/19 07:22	05/24/19 19:09	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:09	1
Iron	**0.13**		0.030		mg/L		05/20/19 07:22	05/24/19 19:09	1
Magnesium	**2.4**		0.24		mg/L		05/20/19 07:22	05/24/19 19:09	1
Manganese	**0.030**		0.010		mg/L		05/20/19 07:22	05/24/19 19:09	1
Potassium	**1.8**		0.20		mg/L		05/20/19 07:22	05/24/19 19:09	1
Sodium	**2.3**		0.40		mg/L		05/20/19 07:22	05/24/19 19:09	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**50**		10		mg/L			05/29/19 10:26	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:37	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:28	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 16:34	1
Chloride	**2.4**		0.50		mg/L			06/11/19 13:04	1
Total Dissolved Solids	**48**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:04	1
Total Organic Carbon	**2.0**		1.0		mg/L			06/06/19 13:46	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.8**		4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.2**				NTU			05/15/19 13:40	1
Temperature	**12.0**				Degrees C			05/15/19 13:40	1
Field pH	**6.75**				SU			05/15/19 13:40	1
Specific Conductance	**141**				umhos/cm			05/15/19 13:40	1
Field EH/ORP	**85.4**				millivolts			05/15/19 13:40	1
Flow	**1.0**				ft/sec			05/15/19 13:40	1
Oxygen, Dissolved	**10.0**				mg/L			05/15/19 13:40	1
Depth to Water from Top of Casing	**2.08**				ft			05/15/19 13:40	1

Client Sample ID: SW-204

Date Collected: 05/15/19 14:50
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-6

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.33**		0.080		mg/L		05/20/19 07:22	05/24/19 19:12	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:12	1
Barium	**0.0067**		0.0050		mg/L		05/20/19 07:22	05/24/19 19:12	1
Calcium	**4.9**		0.15		mg/L		05/20/19 07:22	05/24/19 19:12	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:12	1
Iron	**0.56**		0.030		mg/L		05/20/19 07:22	05/24/19 19:12	1
Magnesium	**1.1**		0.24		mg/L		05/20/19 07:22	05/24/19 19:12	1
Manganese	**0.062**		0.010		mg/L		05/20/19 07:22	05/24/19 19:12	1
Potassium	**0.49**		0.20		mg/L		05/20/19 07:22	05/24/19 19:12	1
Sodium	**5.0**		0.40		mg/L		05/20/19 07:22	05/24/19 19:12	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**32**		10		mg/L			05/30/19 13:00	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:41	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:29	1
Chemical Oxygen Demand	**32**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 16:34	1
Chloride	**9.6**		0.50		mg/L			06/09/19 12:28	1
Total Dissolved Solids	**33**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:15	1
Total Organic Carbon	**7.9**		1.0		mg/L			06/06/19 14:02	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.4**				NTU			05/15/19 14:50	1
Temperature	**10.8**				Degrees C			05/15/19 14:50	1
Field pH	**6.69**				SU			05/15/19 14:50	1
Specific Conductance	**92**				umhos/cm			05/15/19 14:50	1
Field EH/ORP	**62.9**				millivolts			05/15/19 14:50	1
Flow	**2.0**				ft/sec			05/15/19 14:50	1
Oxygen, Dissolved	**9.7**				mg/L			05/15/19 14:50	1
Depth to Water from Top of Casing	**1.70**				ft			05/15/19 14:50	1

Client Sample ID: SW-801

Date Collected: 05/15/19 12:00
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-7

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.098**		0.080		mg/L		05/20/19 07:22	05/24/19 19:16	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:16	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 19:16	1
Calcium	**14**		0.15		mg/L		05/20/19 07:22	05/24/19 19:16	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:16	1
Iron	**0.10**		0.030		mg/L		05/20/19 07:22	05/24/19 19:16	1
Magnesium	**1.8**		0.24		mg/L		05/20/19 07:22	05/24/19 19:16	1
Manganese	**0.026**		0.010		mg/L		05/20/19 07:22	05/24/19 19:16	1
Potassium	**1.8**		0.20		mg/L		05/20/19 07:22	05/24/19 19:16	1
Sodium	**1.7**		0.40		mg/L		05/20/19 07:22	05/24/19 19:16	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**40**		10		mg/L			06/04/19 16:46	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:43	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:30	1
Chemical Oxygen Demand	**12**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 17:11	1
Chloride	**1.4**		0.50		mg/L			06/09/19 12:28	1
Total Dissolved Solids	**35**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 09:52	1
Total Organic Carbon	**2.1**		1.0		mg/L			06/06/19 15:25	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.3**				NTU			05/15/19 12:00	1
Temperature	**11.0**				Degrees C			05/15/19 12:00	1
Field pH	**6.11**				SU			05/15/19 12:00	1
Specific Conductance	**146**				umhos/cm			05/15/19 12:00	1
Field EH/ORP	**174.7**				millivolts			05/15/19 12:00	1
Flow	**1.0**				ft/sec			05/15/19 12:00	1
Oxygen, Dissolved	**11.1**				mg/L			05/15/19 12:00	1
Depth to Water from Top of Casing	**1.30**				ft			05/15/19 12:00	1

Client Sample ID: SW-9

Date Collected: 05/15/19 13:55
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-8

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**		0.080		mg/L		05/20/19 07:22	05/24/19 19:20	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:20	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 19:20	1
Calcium	**3.9**		0.15		mg/L		05/20/19 07:22	05/24/19 19:20	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:20	1
Iron	**0.29**		0.030		mg/L		05/20/19 07:22	05/24/19 19:20	1
Magnesium	**1.0**		0.24		mg/L		05/20/19 07:22	05/24/19 19:20	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 19:20	1
Potassium	**0.67**		0.20		mg/L		05/20/19 07:22	05/24/19 19:20	1
Sodium	**1.7**		0.40		mg/L		05/20/19 07:22	05/24/19 19:20	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**11**		10		mg/L			05/29/19 10:28	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:44	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:34	1
Chemical Oxygen Demand	**28**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 17:11	1
Chloride	**1.7**		0.50		mg/L			06/09/19 12:28	1
Total Dissolved Solids	**27**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:10	1
Total Organic Carbon	**7.2**		1.0		mg/L			06/06/19 16:15	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.1**				NTU			05/15/19 13:55	1
Temperature	**11.0**				Degrees C			05/15/19 13:55	1
Field pH	**6.49**				SU			05/15/19 13:55	1
Specific Conductance	**77**				umhos/cm			05/15/19 13:55	1
Field EH/ORP	**75.0**				millivolts			05/15/19 13:55	1
Flow	**Still**				ft/sec			05/15/19 13:55	1
Oxygen, Dissolved	**9.9**				mg/L			05/15/19 13:55	1

Client Sample ID: SW-A

Date Collected: 05/15/19 15:50
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-9

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.34**		0.080		mg/L		05/20/19 07:22	05/24/19 19:24	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:24	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 19:24	1
Calcium	**15**		0.15		mg/L		05/20/19 07:22	05/24/19 19:24	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:24	1
Iron	**0.83**		0.030		mg/L		05/20/19 07:22	05/24/19 19:24	1
Magnesium	**4.8**		0.24		mg/L		05/20/19 07:22	05/24/19 19:24	1
Manganese	**0.17**		0.010		mg/L		05/20/19 07:22	05/24/19 19:24	1
Potassium	**1.3**		0.20		mg/L		05/20/19 07:22	05/24/19 19:24	1
Sodium	**2.2**		0.40		mg/L		05/20/19 07:22	05/24/19 19:24	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**50**		10		mg/L			05/29/19 10:28	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:45	1
Nitrate	**0.34**		0.050		mg/L as N			05/16/19 22:28	1
Chemical Oxygen Demand	**18**		10		mg/L			06/05/19 09:55	1
Sulfate	ND	U	5.0		mg/L			06/10/19 17:18	1
Chloride	**1.9**		0.50		mg/L			06/09/19 12:28	1
Total Dissolved Solids	**56**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:40	1
Total Organic Carbon	**4.1**		1.0		mg/L			06/06/19 16:31	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**40**		5.2		mg/L			06/03/19 08:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**9.3**				NTU			05/15/19 15:50	1
Temperature	**10.0**				Degrees C			05/15/19 15:50	1
Field pH	**6.50**				SU			05/15/19 15:50	1
Specific Conductance	**146**				umhos/cm			05/15/19 15:50	1
Field EH/ORP	**82.9**				millivolts			05/15/19 15:50	1
Flow	**TSTM**				ft/sec			05/15/19 15:50	1
Oxygen, Dissolved	**9.3**				mg/L			05/15/19 15:50	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Client Sample ID: SW-B

Date Collected: 05/15/19 16:30
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-10

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.29**		0.080		mg/L		05/20/19 07:22	05/24/19 19:27	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:27	1
Barium	**0.0065**		0.0050		mg/L		05/20/19 07:22	05/24/19 19:27	1
Calcium	**5.4**		0.15		mg/L		05/20/19 07:22	05/24/19 19:27	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:27	1
Iron	**0.24**		0.030		mg/L		05/20/19 07:22	05/24/19 19:27	1
Magnesium	**1.6**		0.24		mg/L		05/20/19 07:22	05/24/19 19:27	1
Manganese	**0.025**		0.010		mg/L		05/20/19 07:22	05/24/19 19:27	1
Potassium	**0.57**		0.20		mg/L		05/20/19 07:22	05/24/19 19:27	1
Sodium	**4.3**		0.40		mg/L		05/20/19 07:22	05/24/19 19:27	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**14**		10		mg/L			06/02/19 17:26	1
Ammonia as N	**0.083**		0.020		mg/L as N			06/03/19 12:27	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:37	1
Chemical Oxygen Demand	**31**		10		mg/L			06/06/19 11:00	1
Sulfate	ND	U	5.0		mg/L			06/10/19 17:18	1
Chloride	**8.5**		0.50		mg/L			06/09/19 12:28	1
Total Dissolved Solids	**38**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 18:33	1
Total Organic Carbon	**7.7**		1.0		mg/L			06/06/19 16:48	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.7**				NTU			05/15/19 16:30	1
Temperature	**8.0**				Degrees C			05/15/19 16:30	1
Field pH	**5.79**				SU			05/15/19 16:30	1
Specific Conductance	**85**				umhos/cm			05/15/19 16:30	1
Field EH/ORP	**100.7**				millivolts			05/15/19 16:30	1
Flow	**3.0**				ft/sec			05/15/19 16:30	1
Oxygen, Dissolved	**10.2**				mg/L			05/15/19 16:30	1
Depth to Water from Top of Casing	**1.00**				ft			05/15/19 16:30	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Client Sample ID: SW-C

Date Collected: 05/15/19 12:30
Date Received: 05/16/19 09:10

Lab Sample ID: 480-153594-11

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.26**		0.080		mg/L		05/20/19 07:22	05/24/19 19:31	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 19:31	1
Barium	**0.0055**		0.0050		mg/L		05/20/19 07:22	05/24/19 19:31	1
Calcium	**1.6**		0.15		mg/L		05/20/19 07:22	05/24/19 19:31	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 19:31	1
Iron	**0.19**		0.030		mg/L		05/20/19 07:22	05/24/19 19:31	1
Magnesium	**0.68**		0.24		mg/L		05/20/19 07:22	05/24/19 19:31	1
Manganese	**0.015**		0.010		mg/L		05/20/19 07:22	05/24/19 19:31	1
Potassium	**0.28**		0.20		mg/L		05/20/19 07:22	05/24/19 19:31	1
Sodium	**3.6**		0.40		mg/L		05/20/19 07:22	05/24/19 19:31	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 19:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 10:28	1
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:46	1
Nitrate	ND	U	0.050		mg/L as N			05/16/19 21:38	1
Chemical Oxygen Demand	**34**		10		mg/L			06/06/19 11:00	1
Sulfate	ND	U	5.0		mg/L			06/10/19 16:36	1
Chloride	**6.6**		0.50		mg/L			06/09/19 12:30	1
Total Dissolved Solids	**23**		5.0		mg/L			05/22/19 12:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/21/19 10:46	1
Total Organic Carbon	**8.0**		1.0		mg/L			06/06/19 17:05	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			05/22/19 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.5**				NTU			05/15/19 12:30	1
Temperature	**7.9**				Degrees C			05/15/19 12:30	1
Field pH	**5.62**				SU			05/15/19 12:30	1
Specific Conductance	**62**				umhos/cm			05/15/19 12:30	1
Field EH/ORP	**103.8**				millivolts			05/15/19 12:30	1
Flow	**Still**				ft/sec			05/15/19 12:30	1
Oxygen, Dissolved	**10.4**				mg/L			05/15/19 12:30	1
Depth to Water from Top of Casing	**0.45**				ft			05/15/19 12:30	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-473435/1-A
Matrix: Water
Analysis Batch: 474744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473435

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		05/20/19 07:22	05/24/19 18:10	1
Arsenic	ND	U	0.0090		mg/L		05/20/19 07:22	05/24/19 18:10	1
Barium	ND	U	0.0050		mg/L		05/20/19 07:22	05/24/19 18:10	1
Calcium	ND	U	0.15		mg/L		05/20/19 07:22	05/24/19 18:10	1
Copper	ND	U	0.0020		mg/L		05/20/19 07:22	05/24/19 18:10	1
Iron	ND	U	0.030		mg/L		05/20/19 07:22	05/24/19 18:10	1
Magnesium	ND	U	0.24		mg/L		05/20/19 07:22	05/24/19 18:10	1
Manganese	ND	U	0.010		mg/L		05/20/19 07:22	05/24/19 18:10	1
Potassium	ND	U	0.20		mg/L		05/20/19 07:22	05/24/19 18:10	1
Sodium	ND	U	0.40		mg/L		05/20/19 07:22	05/24/19 18:10	1
Zinc	ND	U	0.020		mg/L		05/20/19 07:22	05/24/19 18:10	1

Lab Sample ID: LCS 480-473435/2-A
Matrix: Water
Analysis Batch: 474744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			10.0	10.2		mg/L		102	80 - 120		
Arsenic			0.200	0.205		mg/L		103	80 - 120		
Barium			0.200	0.218		mg/L		109	80 - 120		
Calcium			10.0	10.2		mg/L		102	80 - 120		
Copper			0.200	0.200		mg/L		100	80 - 120		
Iron			10.0	10.4		mg/L		104	80 - 120		
Magnesium			10.0	10.1		mg/L		101	80 - 120		
Manganese			0.200	0.204		mg/L		102	80 - 120		
Potassium			10.0	9.74		mg/L		97	80 - 120		
Sodium			10.0	9.50		mg/L		95	80 - 120		
Zinc			0.200	0.208		mg/L		104	80 - 120		

Lab Sample ID: 480-153594-1 MS
Matrix: Surface Water
Analysis Batch: 474744

Client Sample ID: DUP-SW-01
Prep Type: Total/NA
Prep Batch: 473435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	0.13		10.0	10.3		mg/L		102	75 - 125		
Arsenic	ND	U	0.200	0.203		mg/L		102	75 - 125		
Barium	0.0068		0.200	0.220		mg/L		107	75 - 125		
Calcium	6.3		10.0	16.4		mg/L		101	75 - 125		
Copper	ND	U	0.200	0.199		mg/L		99	75 - 125		
Iron	0.20		10.0	10.5		mg/L		103	75 - 125		
Magnesium	1.1		10.0	11.0		mg/L		99	75 - 125		
Manganese	0.012		0.200	0.212		mg/L		100	75 - 125		
Potassium	0.58		10.0	10.3		mg/L		97	75 - 125		
Sodium	12		10.0	21.9		mg/L		97	75 - 125		
Zinc	ND	U	0.200	0.210		mg/L		104	75 - 125		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-153594-1 MSD
Matrix: Surface Water
Analysis Batch: 474744

Client Sample ID: DUP-SW-01
Prep Type: Total/NA
Prep Batch: 473435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.13		10.0	9.59		mg/L		95	75 - 125	8	20
Arsenic	ND	U	0.200	0.189		mg/L		95	75 - 125	7	20
Barium	0.0068		0.200	0.206		mg/L		100	75 - 125	7	20
Calcium	6.3		10.0	15.0		mg/L		87	75 - 125	9	20
Copper	ND	U	0.200	0.185		mg/L		93	75 - 125	7	20
Iron	0.20		10.0	9.72		mg/L		95	75 - 125	7	20
Magnesium	1.1		10.0	10.3		mg/L		92	75 - 125	7	20
Manganese	0.012		0.200	0.198		mg/L		93	75 - 125	7	20
Potassium	0.58		10.0	9.59		mg/L		90	75 - 125	7	20
Sodium	12		10.0	20.0		mg/L		78	75 - 125	9	20
Zinc	ND	U	0.200	0.194		mg/L		96	75 - 125	8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-473436/1-A
Matrix: Water
Analysis Batch: 474292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473436

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.00040		mg/L		05/18/19 08:11	05/22/19 16:27	1

Lab Sample ID: LCS 480-473436/2-A
Matrix: Water
Analysis Batch: 474292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473436

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.0200	0.0186		mg/L		93	80 - 120		

Lab Sample ID: 480-153594-3 MS
Matrix: Surface Water
Analysis Batch: 474292

Client Sample ID: SW-102
Prep Type: Total/NA
Prep Batch: 473436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND	U	0.0200	0.0188		mg/L		94	75 - 125		

Lab Sample ID: 480-153594-3 MSD
Matrix: Surface Water
Analysis Batch: 474292

Client Sample ID: SW-102
Prep Type: Total/NA
Prep Batch: 473436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND	U	0.0200	0.0189		mg/L		95	75 - 125	1	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-475273/20
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 10:26	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-475273/32
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 10:28	1

Lab Sample ID: MB 480-475273/71
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/29/19 12:27	1

Lab Sample ID: LCS 480-475273/21
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.4		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-475273/33
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.6		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-475273/72
Matrix: Water
Analysis Batch: 475273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.5		mg/L		103	90 - 110		

Lab Sample ID: 480-153594-1 DU
Matrix: Surface Water
Analysis Batch: 475273

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	13			12.6		mg/L				0.3	20

Lab Sample ID: MB 480-475409/12
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/30/19 11:08	1

Lab Sample ID: MB 480-475409/53
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/30/19 11:39	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-475409/79
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/30/19 12:14	1

Lab Sample ID: MB 480-475409/90
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			05/30/19 13:00	1

Lab Sample ID: LCS 480-475409/13
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-475409/54
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.4		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-475409/80
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.5		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-475409/91
Matrix: Water
Analysis Batch: 475409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.8		mg/L		100	90 - 110		

Lab Sample ID: MB 480-475783/50
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/02/19 16:53	1

Lab Sample ID: MB 480-475783/60
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/02/19 17:26	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-475783/51
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: LCS 480-475783/61
Matrix: Water
Analysis Batch: 475783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: MB 480-476179/28
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 12:28	1

Lab Sample ID: MB 480-476179/91
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/04/19 16:45	1

Lab Sample ID: LCS 480-476179/29
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.7		mg/L		103	90 - 110

Lab Sample ID: LCS 480-476179/92
Matrix: Water
Analysis Batch: 476179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: 480-153594-7 MS
Matrix: Surface Water
Analysis Batch: 476179

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	40		20.0	10.4	*	mg/L		-150	60 - 140

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-475652/27
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:19	1

Lab Sample ID: MB 480-475652/51
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 13:40	1

Lab Sample ID: MB 480-475652/75
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			05/31/19 14:00	1

Lab Sample ID: LCS 480-475652/28
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.999		mg/L as N		100	90 - 110		

Lab Sample ID: LCS 480-475652/52
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.995		mg/L as N		100	90 - 110		

Lab Sample ID: LCS 480-475652/76
Matrix: Water
Analysis Batch: 475652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.995		mg/L as N		100	90 - 110		

Lab Sample ID: 480-153594-6 MS
Matrix: Surface Water
Analysis Batch: 475652

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.224		mg/L as N		103	90 - 110		

Lab Sample ID: MB 480-475876/123
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 12:16	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-475876/27
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 10:54	1

Lab Sample ID: MB 480-475876/3
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/03/19 10:34	1

Lab Sample ID: LCS 480-475876/124
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-475876/28
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-475876/4
Matrix: Water
Analysis Batch: 475876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-476246/51
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/05/19 09:55	1

Lab Sample ID: MB 480-476246/75
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/05/19 09:55	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-476246/52
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.8		mg/L		107	90 - 110

Lab Sample ID: LCS 480-476246/76
Matrix: Water
Analysis Batch: 476246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.1		mg/L		97	90 - 110

Lab Sample ID: 480-153594-7 MS
Matrix: Surface Water
Analysis Batch: 476246

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	12		50.0	72.0		mg/L		120	75 - 125

Lab Sample ID: 480-153594-7 DU
Matrix: Surface Water
Analysis Batch: 476246

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	12		10.3		mg/L		15	20

Lab Sample ID: MB 480-476536/27
Matrix: Water
Analysis Batch: 476536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/06/19 11:00	1

Lab Sample ID: LCS 480-476536/28
Matrix: Water
Analysis Batch: 476536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	22.8		mg/L		91	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-477115/128
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			06/10/19 16:33	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: MB 480-477115/58
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 15:01	1

Lab Sample ID: LCS 480-477115/127
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.6		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-477115/57
Matrix: Water
Analysis Batch: 477115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.4		mg/L		101	90 - 110		

Lab Sample ID: 480-153594-1 MS
Matrix: Surface Water
Analysis Batch: 477115

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	ND	U *	mg/L		9	60 - 128		

Lab Sample ID: 480-153594-1 MSD
Matrix: Surface Water
Analysis Batch: 477115

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		12	60 - 128	32	20

Lab Sample ID: MB 480-477117/32
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 16:41	1

Lab Sample ID: MB 480-477117/50
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 16:50	1

Lab Sample ID: MB 480-477117/72
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			06/10/19 17:11	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-477117/31
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.7		mg/L		96	90 - 110

Lab Sample ID: LCS 480-477117/49
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.4		mg/L		95	90 - 110

Lab Sample ID: LCS 480-477117/71
Matrix: Water
Analysis Batch: 477117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.5		mg/L		95	90 - 110

Lab Sample ID: 480-153594-5 MS
Matrix: Surface Water
Analysis Batch: 477117

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	28.4	*	mg/L		142	60 - 128

Lab Sample ID: 480-153594-5 MSD
Matrix: Surface Water
Analysis Batch: 477117

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	26.4	*	mg/L		132	60 - 128	8	20

Lab Sample ID: 480-153594-6 MS
Matrix: Surface Water
Analysis Batch: 477117

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	ND	U *	mg/L		0	60 - 128

Lab Sample ID: 480-153594-6 MSD
Matrix: Surface Water
Analysis Batch: 477117

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		0	60 - 128	NC	20

Method: 9251 - Chloride

Lab Sample ID: MB 480-476956/78
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.668		0.50		mg/L			06/09/19 11:10	1

Lab Sample ID: MB 480-476956/87
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/09/19 12:28	1

Lab Sample ID: LCS 480-476956/79
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-476956/88
Matrix: Water
Analysis Batch: 476956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.4		mg/L		110	90 - 110		

Lab Sample ID: 480-153594-6 MS
Matrix: Surface Water
Analysis Batch: 476956

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	9.6		20.0	30.8		mg/L		106	74 - 131		

Lab Sample ID: 480-153594-6 MSD
Matrix: Surface Water
Analysis Batch: 476956

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.6		20.0	31.2		mg/L		108	74 - 131	1	20

Lab Sample ID: MB 480-477359/22
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/11/19 13:04	1

Lab Sample ID: LCS 480-477359/23
Matrix: Water
Analysis Batch: 477359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.4		mg/L		109	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: 480-153594-1 MS
Matrix: Surface Water
Analysis Batch: 477359

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26		20.0	44.8		mg/L		94	74 - 131

Lab Sample ID: 480-153594-1 MSD
Matrix: Surface Water
Analysis Batch: 477359

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26		20.0	45.5		mg/L		98	74 - 131	2	20

Lab Sample ID: 480-153594-5 MS
Matrix: Surface Water
Analysis Batch: 477359

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.4		20.0	24.3		mg/L		110	74 - 131

Lab Sample ID: 480-153594-5 MSD
Matrix: Surface Water
Analysis Batch: 477359

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.4		20.0	23.0		mg/L		103	74 - 131	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-474168/1
Matrix: Water
Analysis Batch: 474168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			05/22/19 12:24	1

Lab Sample ID: LCS 480-474168/2
Matrix: Water
Analysis Batch: 474168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids			500	481		mg/L		96	85 - 115

Lab Sample ID: 480-153594-11 DU
Matrix: Surface Water
Analysis Batch: 474168

Client Sample ID: SW-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	23			23.0		mg/L				NC	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-474216/1
Matrix: Water
Analysis Batch: 474216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			05/22/19 15:03	1

Lab Sample ID: LCS 480-474216/2
Matrix: Water
Analysis Batch: 474216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			280	274		mg/L		98	88 - 110		

Lab Sample ID: MB 480-475818/1
Matrix: Water
Analysis Batch: 475818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/03/19 08:24	1

Lab Sample ID: LCS 480-475818/2
Matrix: Water
Analysis Batch: 475818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			256	247		mg/L		97	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-476619/52
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/06/19 08:14	1

Lab Sample ID: MB 480-476619/76
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			06/06/19 14:52	1

Lab Sample ID: LCS 480-476619/53
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.4		mg/L		101	90 - 110		

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-476619/77
Matrix: Water
Analysis Batch: 476619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.7		mg/L		99	90 - 110		

Lab Sample ID: 480-153594-7 MS
Matrix: Surface Water
Analysis Batch: 476619

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	2.1		44.0	43.4		mg/L		94	54 - 131		

Lab Sample ID: 480-153594-7 MSD
Matrix: Surface Water
Analysis Batch: 476619

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.1		44.0	43.8		mg/L		95	54 - 131	1	20

Metals

Prep Batch: 473435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	3005A	
480-153594-2	SW-101	Total/NA	Surface Water	3005A	
480-153594-3	SW-102	Total/NA	Surface Water	3005A	
480-153594-4	SW-201	Total/NA	Surface Water	3005A	
480-153594-5	SW-203	Total/NA	Surface Water	3005A	
480-153594-6	SW-204	Total/NA	Surface Water	3005A	
480-153594-7	SW-801	Total/NA	Surface Water	3005A	
480-153594-8	SW-9	Total/NA	Surface Water	3005A	
480-153594-9	SW-A	Total/NA	Surface Water	3005A	
480-153594-10	SW-B	Total/NA	Surface Water	3005A	
480-153594-11	SW-C	Total/NA	Surface Water	3005A	
MB 480-473435/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-473435/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-153594-1 MS	DUP-SW-01	Total/NA	Surface Water	3005A	
480-153594-1 MSD	DUP-SW-01	Total/NA	Surface Water	3005A	

Prep Batch: 473436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	3020A	
480-153594-2	SW-101	Total/NA	Surface Water	3020A	
480-153594-3	SW-102	Total/NA	Surface Water	3020A	
480-153594-4	SW-201	Total/NA	Surface Water	3020A	
480-153594-5	SW-203	Total/NA	Surface Water	3020A	
480-153594-6	SW-204	Total/NA	Surface Water	3020A	
480-153594-7	SW-801	Total/NA	Surface Water	3020A	
480-153594-8	SW-9	Total/NA	Surface Water	3020A	
480-153594-9	SW-A	Total/NA	Surface Water	3020A	
480-153594-10	SW-B	Total/NA	Surface Water	3020A	
480-153594-11	SW-C	Total/NA	Surface Water	3020A	
MB 480-473436/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-473436/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-153594-3 MS	SW-102	Total/NA	Surface Water	3020A	
480-153594-3 MSD	SW-102	Total/NA	Surface Water	3020A	

Analysis Batch: 474292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	6020A	473436
480-153594-2	SW-101	Total/NA	Surface Water	6020A	473436
480-153594-3	SW-102	Total/NA	Surface Water	6020A	473436
480-153594-4	SW-201	Total/NA	Surface Water	6020A	473436
480-153594-5	SW-203	Total/NA	Surface Water	6020A	473436
480-153594-6	SW-204	Total/NA	Surface Water	6020A	473436
480-153594-7	SW-801	Total/NA	Surface Water	6020A	473436
480-153594-8	SW-9	Total/NA	Surface Water	6020A	473436
480-153594-9	SW-A	Total/NA	Surface Water	6020A	473436
480-153594-10	SW-B	Total/NA	Surface Water	6020A	473436
480-153594-11	SW-C	Total/NA	Surface Water	6020A	473436
MB 480-473436/1-A	Method Blank	Total/NA	Water	6020A	473436
LCS 480-473436/2-A	Lab Control Sample	Total/NA	Water	6020A	473436
480-153594-3 MS	SW-102	Total/NA	Surface Water	6020A	473436
480-153594-3 MSD	SW-102	Total/NA	Surface Water	6020A	473436

Metals

Analysis Batch: 474744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	6010C	473435
480-153594-2	SW-101	Total/NA	Surface Water	6010C	473435
480-153594-3	SW-102	Total/NA	Surface Water	6010C	473435
480-153594-4	SW-201	Total/NA	Surface Water	6010C	473435
480-153594-5	SW-203	Total/NA	Surface Water	6010C	473435
480-153594-6	SW-204	Total/NA	Surface Water	6010C	473435
480-153594-7	SW-801	Total/NA	Surface Water	6010C	473435
480-153594-8	SW-9	Total/NA	Surface Water	6010C	473435
480-153594-9	SW-A	Total/NA	Surface Water	6010C	473435
480-153594-10	SW-B	Total/NA	Surface Water	6010C	473435
480-153594-11	SW-C	Total/NA	Surface Water	6010C	473435
MB 480-473435/1-A	Method Blank	Total/NA	Water	6010C	473435
LCS 480-473435/2-A	Lab Control Sample	Total/NA	Water	6010C	473435
480-153594-1 MS	DUP-SW-01	Total/NA	Surface Water	6010C	473435
480-153594-1 MSD	DUP-SW-01	Total/NA	Surface Water	6010C	473435

General Chemistry

Analysis Batch: 473318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	353.2	
480-153594-2	SW-101	Total/NA	Surface Water	353.2	
480-153594-3	SW-102	Total/NA	Surface Water	353.2	
480-153594-4	SW-201	Total/NA	Surface Water	353.2	
480-153594-5	SW-203	Total/NA	Surface Water	353.2	
480-153594-6	SW-204	Total/NA	Surface Water	353.2	
480-153594-7	SW-801	Total/NA	Surface Water	353.2	
480-153594-8	SW-9	Total/NA	Surface Water	353.2	
480-153594-9	SW-A	Total/NA	Surface Water	353.2	
480-153594-10	SW-B	Total/NA	Surface Water	353.2	
480-153594-11	SW-C	Total/NA	Surface Water	353.2	

Analysis Batch: 474168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	SM 2540C	
480-153594-2	SW-101	Total/NA	Surface Water	SM 2540C	
480-153594-3	SW-102	Total/NA	Surface Water	SM 2540C	
480-153594-4	SW-201	Total/NA	Surface Water	SM 2540C	
480-153594-5	SW-203	Total/NA	Surface Water	SM 2540C	
480-153594-6	SW-204	Total/NA	Surface Water	SM 2540C	
480-153594-7	SW-801	Total/NA	Surface Water	SM 2540C	
480-153594-8	SW-9	Total/NA	Surface Water	SM 2540C	
480-153594-9	SW-A	Total/NA	Surface Water	SM 2540C	
480-153594-10	SW-B	Total/NA	Surface Water	SM 2540C	
480-153594-11	SW-C	Total/NA	Surface Water	SM 2540C	
MB 480-474168/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-474168/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-153594-11 DU	SW-C	Total/NA	Surface Water	SM 2540C	

General Chemistry

Analysis Batch: 474216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	SM 2540D	
480-153594-2	SW-101	Total/NA	Surface Water	SM 2540D	
480-153594-3	SW-102	Total/NA	Surface Water	SM 2540D	
480-153594-4	SW-201	Total/NA	Surface Water	SM 2540D	
480-153594-5	SW-203	Total/NA	Surface Water	SM 2540D	
480-153594-6	SW-204	Total/NA	Surface Water	SM 2540D	
480-153594-7	SW-801	Total/NA	Surface Water	SM 2540D	
480-153594-8	SW-9	Total/NA	Surface Water	SM 2540D	
480-153594-10	SW-B	Total/NA	Surface Water	SM 2540D	
480-153594-11	SW-C	Total/NA	Surface Water	SM 2540D	
MB 480-474216/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-474216/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 475273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	310.2	
480-153594-2	SW-101	Total/NA	Surface Water	310.2	
480-153594-3	SW-102	Total/NA	Surface Water	310.2	
480-153594-4	SW-201	Total/NA	Surface Water	310.2	
480-153594-5	SW-203	Total/NA	Surface Water	310.2	
480-153594-8	SW-9	Total/NA	Surface Water	310.2	
480-153594-9	SW-A	Total/NA	Surface Water	310.2	
480-153594-11	SW-C	Total/NA	Surface Water	310.2	
MB 480-475273/20	Method Blank	Total/NA	Water	310.2	
MB 480-475273/32	Method Blank	Total/NA	Water	310.2	
MB 480-475273/71	Method Blank	Total/NA	Water	310.2	
LCS 480-475273/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475273/33	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475273/72	Lab Control Sample	Total/NA	Water	310.2	
480-153594-1 DU	DUP-SW-01	Total/NA	Surface Water	310.2	

Analysis Batch: 475409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-6	SW-204	Total/NA	Surface Water	310.2	
MB 480-475409/12	Method Blank	Total/NA	Water	310.2	
MB 480-475409/53	Method Blank	Total/NA	Water	310.2	
MB 480-475409/79	Method Blank	Total/NA	Water	310.2	
MB 480-475409/90	Method Blank	Total/NA	Water	310.2	
LCS 480-475409/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/54	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/80	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475409/91	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 475652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-2	SW-101	Total/NA	Surface Water	350.1	
480-153594-3	SW-102	Total/NA	Surface Water	350.1	
480-153594-4	SW-201	Total/NA	Surface Water	350.1	
480-153594-5	SW-203	Total/NA	Surface Water	350.1	
480-153594-6	SW-204	Total/NA	Surface Water	350.1	
480-153594-7	SW-801	Total/NA	Surface Water	350.1	

General Chemistry (Continued)

Analysis Batch: 475652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-8	SW-9	Total/NA	Surface Water	350.1	
480-153594-9	SW-A	Total/NA	Surface Water	350.1	
480-153594-11	SW-C	Total/NA	Surface Water	350.1	
MB 480-475652/27	Method Blank	Total/NA	Water	350.1	
MB 480-475652/51	Method Blank	Total/NA	Water	350.1	
MB 480-475652/75	Method Blank	Total/NA	Water	350.1	
LCS 480-475652/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475652/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475652/76	Lab Control Sample	Total/NA	Water	350.1	
480-153594-6 MS	SW-204	Total/NA	Surface Water	350.1	

Analysis Batch: 475783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-10	SW-B	Total/NA	Surface Water	310.2	
MB 480-475783/50	Method Blank	Total/NA	Water	310.2	
MB 480-475783/60	Method Blank	Total/NA	Water	310.2	
LCS 480-475783/51	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-475783/61	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 475818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-9	SW-A	Total/NA	Surface Water	SM 2540D	
MB 480-475818/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-475818/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 475876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	350.1	
480-153594-10	SW-B	Total/NA	Surface Water	350.1	
MB 480-475876/123	Method Blank	Total/NA	Water	350.1	
MB 480-475876/27	Method Blank	Total/NA	Water	350.1	
MB 480-475876/3	Method Blank	Total/NA	Water	350.1	
LCS 480-475876/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475876/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-475876/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 476179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-7	SW-801	Total/NA	Surface Water	310.2	
MB 480-476179/28	Method Blank	Total/NA	Water	310.2	
MB 480-476179/91	Method Blank	Total/NA	Water	310.2	
LCS 480-476179/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-476179/92	Lab Control Sample	Total/NA	Water	310.2	
480-153594-7 MS	SW-801	Total/NA	Surface Water	310.2	

Analysis Batch: 476246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	410.4	
480-153594-2	SW-101	Total/NA	Surface Water	410.4	
480-153594-3	SW-102	Total/NA	Surface Water	410.4	
480-153594-4	SW-201	Total/NA	Surface Water	410.4	

General Chemistry (Continued)

Analysis Batch: 476246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-5	SW-203	Total/NA	Surface Water	410.4	
480-153594-6	SW-204	Total/NA	Surface Water	410.4	
480-153594-7	SW-801	Total/NA	Surface Water	410.4	
480-153594-8	SW-9	Total/NA	Surface Water	410.4	
480-153594-9	SW-A	Total/NA	Surface Water	410.4	
MB 480-476246/51	Method Blank	Total/NA	Water	410.4	
MB 480-476246/75	Method Blank	Total/NA	Water	410.4	
LCS 480-476246/52	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-476246/76	Lab Control Sample	Total/NA	Water	410.4	
480-153594-7 MS	SW-801	Total/NA	Surface Water	410.4	
480-153594-7 DU	SW-801	Total/NA	Surface Water	410.4	

Analysis Batch: 476536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-10	SW-B	Total/NA	Surface Water	410.4	
480-153594-11	SW-C	Total/NA	Surface Water	410.4	
MB 480-476536/27	Method Blank	Total/NA	Water	410.4	
LCS 480-476536/28	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 476619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	SM 5310C	
480-153594-2	SW-101	Total/NA	Surface Water	SM 5310C	
480-153594-3	SW-102	Total/NA	Surface Water	SM 5310C	
480-153594-4	SW-201	Total/NA	Surface Water	SM 5310C	
480-153594-5	SW-203	Total/NA	Surface Water	SM 5310C	
480-153594-6	SW-204	Total/NA	Surface Water	SM 5310C	
480-153594-7	SW-801	Total/NA	Surface Water	SM 5310C	
480-153594-8	SW-9	Total/NA	Surface Water	SM 5310C	
480-153594-9	SW-A	Total/NA	Surface Water	SM 5310C	
480-153594-10	SW-B	Total/NA	Surface Water	SM 5310C	
480-153594-11	SW-C	Total/NA	Surface Water	SM 5310C	
MB 480-476619/52	Method Blank	Total/NA	Water	SM 5310C	
MB 480-476619/76	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-476619/53	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-476619/77	Lab Control Sample	Total/NA	Water	SM 5310C	
480-153594-7 MS	SW-801	Total/NA	Surface Water	SM 5310C	
480-153594-7 MSD	SW-801	Total/NA	Surface Water	SM 5310C	

Analysis Batch: 476956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-2	SW-101	Total/NA	Surface Water	9251	
480-153594-3	SW-102	Total/NA	Surface Water	9251	
480-153594-4	SW-201	Total/NA	Surface Water	9251	
480-153594-6	SW-204	Total/NA	Surface Water	9251	
480-153594-7	SW-801	Total/NA	Surface Water	9251	
480-153594-8	SW-9	Total/NA	Surface Water	9251	
480-153594-9	SW-A	Total/NA	Surface Water	9251	
480-153594-10	SW-B	Total/NA	Surface Water	9251	
480-153594-11	SW-C	Total/NA	Surface Water	9251	
MB 480-476956/78	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 476956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-476956/87	Method Blank	Total/NA	Water	9251	
LCS 480-476956/79	Lab Control Sample	Total/NA	Water	9251	
LCS 480-476956/88	Lab Control Sample	Total/NA	Water	9251	
480-153594-6 MS	SW-204	Total/NA	Surface Water	9251	
480-153594-6 MSD	SW-204	Total/NA	Surface Water	9251	

Analysis Batch: 477115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	9038	
480-153594-2	SW-101	Total/NA	Surface Water	9038	
480-153594-3	SW-102	Total/NA	Surface Water	9038	
480-153594-4	SW-201	Total/NA	Surface Water	9038	
MB 480-477115/128	Method Blank	Total/NA	Water	9038	
MB 480-477115/58	Method Blank	Total/NA	Water	9038	
LCS 480-477115/127	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477115/57	Lab Control Sample	Total/NA	Water	9038	
480-153594-1 MS	DUP-SW-01	Total/NA	Surface Water	9038	
480-153594-1 MSD	DUP-SW-01	Total/NA	Surface Water	9038	

Analysis Batch: 477117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-5	SW-203	Total/NA	Surface Water	9038	
480-153594-6	SW-204	Total/NA	Surface Water	9038	
480-153594-7	SW-801	Total/NA	Surface Water	9038	
480-153594-8	SW-9	Total/NA	Surface Water	9038	
480-153594-9	SW-A	Total/NA	Surface Water	9038	
480-153594-10	SW-B	Total/NA	Surface Water	9038	
480-153594-11	SW-C	Total/NA	Surface Water	9038	
MB 480-477117/32	Method Blank	Total/NA	Water	9038	
MB 480-477117/50	Method Blank	Total/NA	Water	9038	
MB 480-477117/72	Method Blank	Total/NA	Water	9038	
LCS 480-477117/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477117/49	Lab Control Sample	Total/NA	Water	9038	
LCS 480-477117/71	Lab Control Sample	Total/NA	Water	9038	
480-153594-5 MS	SW-203	Total/NA	Surface Water	9038	
480-153594-5 MSD	SW-203	Total/NA	Surface Water	9038	
480-153594-6 MS	SW-204	Total/NA	Surface Water	9038	
480-153594-6 MSD	SW-204	Total/NA	Surface Water	9038	

Analysis Batch: 477359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	9251	
480-153594-5	SW-203	Total/NA	Surface Water	9251	
MB 480-477359/22	Method Blank	Total/NA	Water	9251	
LCS 480-477359/23	Lab Control Sample	Total/NA	Water	9251	
480-153594-1 MS	DUP-SW-01	Total/NA	Surface Water	9251	
480-153594-1 MSD	DUP-SW-01	Total/NA	Surface Water	9251	
480-153594-5 MS	SW-203	Total/NA	Surface Water	9251	
480-153594-5 MSD	SW-203	Total/NA	Surface Water	9251	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

General Chemistry

Analysis Batch: 477485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	SM 5210B	
480-153594-2	SW-101	Total/NA	Surface Water	SM 5210B	
480-153594-3	SW-102	Total/NA	Surface Water	SM 5210B	
480-153594-4	SW-201	Total/NA	Surface Water	SM 5210B	
480-153594-5	SW-203	Total/NA	Surface Water	SM 5210B	
480-153594-6	SW-204	Total/NA	Surface Water	SM 5210B	
480-153594-7	SW-801	Total/NA	Surface Water	SM 5210B	
480-153594-8	SW-9	Total/NA	Surface Water	SM 5210B	
480-153594-9	SW-A	Total/NA	Surface Water	SM 5210B	
480-153594-10	SW-B	Total/NA	Surface Water	SM 5210B	
480-153594-11	SW-C	Total/NA	Surface Water	SM 5210B	

Field Service / Mobile Lab

Analysis Batch: 473418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-153594-1	DUP-SW-01	Total/NA	Surface Water	Field Sampling	
480-153594-2	SW-101	Total/NA	Surface Water	Field Sampling	
480-153594-3	SW-102	Total/NA	Surface Water	Field Sampling	
480-153594-4	SW-201	Total/NA	Surface Water	Field Sampling	
480-153594-5	SW-203	Total/NA	Surface Water	Field Sampling	
480-153594-6	SW-204	Total/NA	Surface Water	Field Sampling	
480-153594-7	SW-801	Total/NA	Surface Water	Field Sampling	
480-153594-8	SW-9	Total/NA	Surface Water	Field Sampling	
480-153594-9	SW-A	Total/NA	Surface Water	Field Sampling	
480-153594-10	SW-B	Total/NA	Surface Water	Field Sampling	
480-153594-11	SW-C	Total/NA	Surface Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Client Sample ID: DUP-SW-01
Lab Sample ID: 480-153594-1
Date Collected: 05/15/19 12:30
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 18:29	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 16:39	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475876	06/03/19 10:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:16	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 13:20	KEB	TAL BUF
Total/NA	Analysis	9251		1	477359	06/11/19 13:04	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 09:56	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 12:39	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 12:30	FLD	TAL BUF

Client Sample ID: SW-101
Lab Sample ID: 480-153594-2
Date Collected: 05/15/19 15:25
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 18:47	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 16:41	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:34	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:17	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 13:23	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 11:10	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:31	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 12:56	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 15:25	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Client Sample ID: SW-102
Lab Sample ID: 480-153594-3
Date Collected: 05/15/19 12:30
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 18:50	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 16:43	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:35	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:26	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 13:23	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 11:10	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:00	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 13:13	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 12:30	FLD	TAL BUF

Client Sample ID: SW-201
Lab Sample ID: 480-153594-4
Date Collected: 05/15/19 15:10
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 18:54	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 16:55	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:36	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:27	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477115	06/10/19 13:23	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 11:10	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:27	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 13:29	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 15:10	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Client Sample ID: SW-203
Lab Sample ID: 480-153594-5
Date Collected: 05/15/19 13:40
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:09	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 16:57	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:37	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:28	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 16:34	KEB	TAL BUF
Total/NA	Analysis	9251		1	477359	06/11/19 13:04	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:04	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 13:46	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 13:40	FLD	TAL BUF

Client Sample ID: SW-204
Lab Sample ID: 480-153594-6
Date Collected: 05/15/19 14:50
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:12	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:00	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475409	05/30/19 13:00	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:29	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 16:34	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:15	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 14:02	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 14:50	FLD	TAL BUF

Client Sample ID: SW-801

Lab Sample ID: 480-153594-7

Date Collected: 05/15/19 12:00

Matrix: Surface Water

Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:16	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:09	KMP	TAL BUF
Total/NA	Analysis	310.2		1	476179	06/04/19 16:46	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:30	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 17:11	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 09:52	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 15:25	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 12:00	FLD	TAL BUF

Client Sample ID: SW-9

Lab Sample ID: 480-153594-8

Date Collected: 05/15/19 13:55

Matrix: Surface Water

Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:20	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:11	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:34	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 17:11	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:10	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 16:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 13:55	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Client Sample ID: SW-A
Lab Sample ID: 480-153594-9
Date Collected: 05/15/19 15:50
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:24	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:14	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 22:28	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476246	06/05/19 09:55	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 17:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	475818	06/03/19 08:24	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:40	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 16:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 15:50	FLD	TAL BUF

Client Sample ID: SW-B
Lab Sample ID: 480-153594-10
Date Collected: 05/15/19 16:30
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:27	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:16	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475783	06/02/19 17:26	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475876	06/03/19 12:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:37	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476536	06/06/19 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 17:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:28	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 18:33	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 16:48	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 16:30	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Client Sample ID: SW-C
Lab Sample ID: 480-153594-11
Date Collected: 05/15/19 12:30
Matrix: Surface Water
Date Received: 05/16/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			473435	05/20/19 07:22	EMB	TAL BUF
Total/NA	Analysis	6010C		1	474744	05/24/19 19:31	LMH	TAL BUF
Total/NA	Prep	3020A			473436	05/18/19 08:11	EMB	TAL BUF
Total/NA	Analysis	6020A		1	474292	05/22/19 17:18	KMP	TAL BUF
Total/NA	Analysis	310.2		1	475273	05/29/19 10:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	475652	05/31/19 13:46	CLT	TAL BUF
Total/NA	Analysis	353.2		1	473318	05/16/19 21:38	SMH	TAL BUF
Total/NA	Analysis	410.4		1	476536	06/06/19 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	477117	06/10/19 16:36	KEB	TAL BUF
Total/NA	Analysis	9251		1	476956	06/09/19 12:30	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	474168	05/22/19 12:24	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	474216	05/22/19 15:03	CSS	TAL BUF
Total/NA	Analysis	SM 5210B		1	477485	06/21/19 10:46	CTB	KAT
Total/NA	Analysis	SM 5310C		1	476619	06/06/19 17:05	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	473418	05/15/19 12:30	FLD	TAL BUF

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-19 *
California	State Program	9	2931	04-01-20
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-19 *
Georgia	State Program	4	10026 (NY)	03-31-20
Georgia	State Program	4	956	03-31-20
Illinois	NELAP	5	200003	09-30-19
Iowa	State Program	7	374	02-28-21
Kansas	NELAP	7	E-10187	01-31-20
Kentucky (DW)	State Program	4	90029	12-31-19
Kentucky (WW)	State Program	4	90029	12-31-19
Louisiana	NELAP	6	02031	06-30-19 *
Maryland	State Program	3	294	03-31-20
Massachusetts	State Program	1	M-NY044	06-30-19 *
Michigan	State Program	5	9937	03-31-20
Minnesota	NELAP	5	036-999-337	12-31-19
New Hampshire	NELAP	1	2337	11-17-19
New Jersey	NELAP	2	NY455	06-30-19 *
New York	NELAP	2	10026	03-31-20
North Dakota	State Program	8	R-176	03-31-20
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-19 *
Pennsylvania	NELAP	3	68-00281	07-31-19 *
Rhode Island	State Program	1	LAO00328	12-30-19
Tennessee	State Program	4	TN02970	03-31-20
Texas	NELAP	6	T104704412-15-6	07-31-19 *
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-20
Wisconsin	State Program	5	998310390	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME: Annual SW

Job ID: 480-153594-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-153594-1	DUP-SW-01	Surface Water	05/15/19 12:30	05/16/19 09:10	
480-153594-2	SW-101	Surface Water	05/15/19 15:25	05/16/19 09:10	
480-153594-3	SW-102	Surface Water	05/15/19 12:30	05/16/19 09:10	
480-153594-4	SW-201	Surface Water	05/15/19 15:10	05/16/19 09:10	
480-153594-5	SW-203	Surface Water	05/15/19 13:40	05/16/19 09:10	
480-153594-6	SW-204	Surface Water	05/15/19 14:50	05/16/19 09:10	
480-153594-7	SW-801	Surface Water	05/15/19 12:00	05/16/19 09:10	
480-153594-8	SW-9	Surface Water	05/15/19 13:55	05/16/19 09:10	
480-153594-9	SW-A	Surface Water	05/15/19 15:50	05/16/19 09:10	
480-153594-10	SW-B	Surface Water	05/15/19 16:30	05/16/19 09:10	
480-153594-11	SW-C	Surface Water	05/15/19 12:30	05/16/19 09:10	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-153594-1
Project/Site: Crossroads ME: Annual SW

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Aluminum	Surface Water	Total/NA	mg/L	0.080	0.20
6010C	Arsenic	Surface Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Surface Water	Total/NA	mg/L	0.15	0.50
6010C	Copper	Surface Water	Total/NA	mg/L	0.0020	0.01
6010C	Iron	Surface Water	Total/NA	mg/L	0.030	0.05
6010C	Potassium	Surface Water	Total/NA	mg/L	0.20	0.50
6010C	Sodium	Surface Water	Total/NA	mg/L	0.40	1.0
6020A	Lead	Surface Water	Total/NA	mg/L	0.00040	0.001
9251	Chloride	Surface Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Surface Water	Total/NA	mg/L	5.0	10

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128056-25870.1
Client Contact: Nick Adams	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Surface Water (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2

480-153594 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 6020A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, To	Total Number of c	Special Instructions/Note:
			Preservation Code:				S	D	A	N	N	N	N	N	N		
SW-101	5/15/19	1525		Water													
SW-102		1230		Water													
SW-201		1510		Water													
SW-203		1340		Water													
SW-204		1450		Water													
SW-801		1200		Water													
SW-9		1355		Water													
SW-A		1550		Water													
SW-B		1630		Water													
SW-C		1615		Water													
DUP-SW-01		1230		Water													

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		5/15/19 1800	KAS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	5-16-19 910	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.2 #1

2.2 2.9

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSS ROADS

Site No.:

Sample Point: SW-DUP (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs.min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 058 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.41	147	12.7	16	10.0	125	1.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: LT YELLOW Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

TAKEN @ SW-102

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-101 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____
A-Submersible Pump D-Bailer
B-Peristaltic Pump E-Piston Pump
C-QED Bladder Pump F-Dipper/Bottle

Sampling Device: F

X-Other: ____

Filter Type: ____
A-In-line Disposable C-Vacuum
B-Pressure X-Other ____

Sample Tube Type: ____
A-Teflon C-PVC X-Other: ____
B-Stainless Steel D-Polypropylene

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 087 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.23	76	10.7	3.2	8.5	76.8	5.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: LT YELLOW Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS	Nick Adams	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-102 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	058 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.41	147	12.2	1.6	1.00	125	1.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: ~~CLEAR~~ * Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

* COLOR WAS LIGHT YELLOW.

DUP TAKEN HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		EDS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-201 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____

A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device: F

Filter Type: ____ A-In-line Disposable B-Pressure C-Vacuum X-Other: ____

X-Other: ____

Sample Tube Type: ____ A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): * 658 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.53	105	10.8	33	1.00	670	2.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

* STICK WAS UNDER WATER, NO STATIC.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-203 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 208 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.75	141	12.0	22	1.00	854	1.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: CLEAR Color: NONE Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KHS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-204

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device:

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 170 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.69	92	10.8	3.4	9.7	62.9	2.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: LT YELLOW Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KMS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-801 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 130 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.11	1146	11.0	43	1.11	1747	1.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-9 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): OUT OF WATER (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	6.49	777	11.0	3.1	9.9	750	STILL

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: LT YELLOW Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: F

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): OUT OF WATER (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05 15 19	6.50	146	10.0	9.3	9.3	829	TSTM

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 100 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05 15 19	5 7 9	8 5	8 0	2 7	1 0 2	1 0 0 7	3.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: SW-C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: ~

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: ~ (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: ~ (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	045 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units FT/SEC
05/15/19	5.62	62	7.9	2.5	10.4	103.8	STILL

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: LT YELLOW Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/15/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-153594-1

Login Number: 153594
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154771-1
Client Project/Site: Crossroads ME-Ann Leachate
Sampling Event: Annual Leachate Collection 4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
7/31/2019 9:13:25 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
J	Indicates an estimated value.
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154771-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154771-1

Comments
No additional comments.

Receipt
The samples were received on 6/12/2019 9:00 AM and 6/13/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 2.9º C and 3.2º C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 480-477905 and analytical batch 480-478204 recovered outside control limits for the following analytes: Benzoic acid.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: 7LC (480-154771-10) and 12ABLC (480-154840-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: 10ABLC (480-154771-7). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-479249 contained Total Chromium and Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed. (LCS 480-477677/2-A) and (MB 480-477677/1-A)

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-479425 contained Total Potassium above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed. 12ABLC (480-154840-1)

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-479249 contained Total Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed. 12ABLC (480-154840-1)

Method(s) 6010C: The results reported for Total Calcium, Cobalt, Iron, and Manganese for the following sample do not concur with results previously reported for this site: 12ABLC (480-154840-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-154771-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

General Chemistry

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 310.2: The following samples were diluted due to the nature of the sample matrix: 11ABCLC (480-154771-8), 123LC (480-154771-9) and 7LC (480-154771-10). Elevated reporting limits (RLs) are provided.

Method(s) 353.2: The results reported for the following samples do not concur with results previously reported for this site: 11ABCLC (480-154771-8) and 12ABLC (480-154840-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 9038: The results reported for the following sample do not concur with results previously reported for this site: 12ABLC (480-154840-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 9251: The following samples were diluted due to the nature of the sample matrix: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). Elevated reporting limits (RLs) are provided.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 10ABLC (480-154771-7), 11ABCLC (480-154771-8), 123LC (480-154771-9), 7LC (480-154771-10), 9ABCLC (480-154771-11) and 12ABLC (480-154840-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 10ABLC — Lab Sample ID: 480-154771-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.091		0.0090		mg/L	1		6010C	Total/NA
Barium	5.0		0.0050		mg/L	1		6010C	Total/NA
Calcium	1500		1.5		mg/L	10		6010C	Total/NA
Chromium	0.032		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.0072		0.0040		mg/L	1		6010C	Total/NA
Iron	61		0.030		mg/L	1		6010C	Total/NA
Magnesium	210		0.24		mg/L	1		6010C	Total/NA
Manganese	4.3		0.010		mg/L	1		6010C	Total/NA
Nickel	0.15		0.040		mg/L	1		6010C	Total/NA
Potassium	2300		10		mg/L	10		6010C	Total/NA
Sodium	5100		4.0		mg/L	10		6010C	Total/NA
Alkalinity, Total	660		450		mg/L	45		310.2	Total/NA
Ammonia as N	1700		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	920		100		mg/L	10		410.4	Total/NA
Sulfate	90		15		mg/L	3		9038	Total/NA
Chloride	17000		200		mg/L	400		9251	Total/NA
Total Dissolved Solids	28000	BL	100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	71		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	44		24		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	100		2.0		mg/L	2		SM 5310C	Total/NA
Turbidity	126				NTU	1		Field Sampling	Total/NA
Temperature	16.9				Degrees C	1		Field Sampling	Total/NA
Field pH	6.91				SU	1		Field Sampling	Total/NA
Specific Conductance	50171				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-85.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 11ABCLC — Lab Sample ID: 480-154771-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.092		0.080		mg/L	1		6010C	Total/NA
Arsenic	0.29		0.0090		mg/L	1		6010C	Total/NA
Barium	0.52		0.0050		mg/L	1		6010C	Total/NA
Calcium	180		0.15		mg/L	1		6010C	Total/NA
Chromium	0.15		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.049		0.0040		mg/L	1		6010C	Total/NA
Iron	9.3		0.030		mg/L	1		6010C	Total/NA
Magnesium	210		0.24		mg/L	1		6010C	Total/NA
Manganese	4.5		0.010		mg/L	1		6010C	Total/NA
Nickel	0.30		0.040		mg/L	1		6010C	Total/NA
Potassium	1200		5.0		mg/L	5		6010C	Total/NA
Sodium	3200		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.051		0.025		mg/L	1		6010C	Total/NA
Zinc	0.026		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	4200		2700		mg/L	265		310.2	Total/NA
Ammonia as N	1600		200		mg/L	2		350.1	Total/NA
Nitrate	54		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	980		100		mg/L	10		410.4	Total/NA
Sulfate	310		150		mg/L	30		9038	Total/NA
Chloride	7900		100		mg/L	200		9251	Total/NA
Total Dissolved Solids	12000	BL	50		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 11ABCLC (Continued)

Lab Sample ID: 480-154771-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	28		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	61		34		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	330		5.0		mg/L	5		SM 5310C	Total/NA
Turbidity	56.0				NTU	1		Field Sampling	Total/NA
Temperature	19.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.69				SU	1		Field Sampling	Total/NA
Specific Conductance	31513				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-25.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 123LC

Lab Sample ID: 480-154771-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.083		0.080		mg/L	1		6010C	Total/NA
Arsenic	0.16		0.0090		mg/L	1		6010C	Total/NA
Barium	1.7		0.0050		mg/L	1		6010C	Total/NA
Calcium	370		0.15		mg/L	1		6010C	Total/NA
Cobalt	0.0084		0.0040		mg/L	1		6010C	Total/NA
Iron	19		0.030		mg/L	1		6010C	Total/NA
Magnesium	250		0.24		mg/L	1		6010C	Total/NA
Manganese	1.2		0.010		mg/L	1		6010C	Total/NA
Nickel	0.063		0.040		mg/L	1		6010C	Total/NA
Potassium	1400		5.0		mg/L	5		6010C	Total/NA
Sodium	1900		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.046		0.025		mg/L	1		6010C	Total/NA
Zinc	0.024		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	2400		1800		mg/L	175		310.2	Total/NA
Ammonia as N	1100		200		mg/L	2		350.1	Total/NA
Nitrate	1.1		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	630		100		mg/L	10		410.4	Total/NA
Chloride	6400		75		mg/L	150		9251	Total/NA
Total Dissolved Solids	11000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	71		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	46		27		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	70		2.0		mg/L	2		SM 5310C	Total/NA
Turbidity	184				NTU	1		Field Sampling	Total/NA
Temperature	18.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Specific Conductance	23070				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	16.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.1				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 7LC

Lab Sample ID: 480-154771-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.15		0.0090		mg/L	1		6010C	Total/NA
Barium	3.0		0.0050		mg/L	1		6010C	Total/NA
Calcium	770		0.15		mg/L	1		6010C	Total/NA
Chromium	0.035		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.012		0.0040		mg/L	1		6010C	Total/NA
Iron	24		0.030		mg/L	1		6010C	Total/NA
Magnesium	180		0.24		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: 7LC (Continued) — Lab Sample ID: 480-154771-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	1.0		0.010		mg/L	1		6010C	Total/NA
Nickel	0.13		0.040		mg/L	1		6010C	Total/NA
Potassium	1500		5.0		mg/L	5		6010C	Total/NA
Sodium	2900		2.0		mg/L	5		6010C	Total/NA
Alkalinity, Total	2400		1300		mg/L	125		310.2	Total/NA
Ammonia as N	700		100		mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	940		100		mg/L	10		410.4	Total/NA
Chloride	8000		130		mg/L	250		9251	Total/NA
Total Dissolved Solids	14000		500		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	110		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	24		16		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	120		2.0		mg/L	2		SM 5310C	Total/NA
Turbidity	71.3				NTU	1		Field Sampling	Total/NA
Temperature	18.6				Degrees C	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Specific Conductance	26507				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-75.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 9ABCLC — Lab Sample ID: 480-154771-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.36		0.0090		mg/L	1		6010C	Total/NA
Barium	1.1		0.0050		mg/L	1		6010C	Total/NA
Calcium	76		0.15		mg/L	1		6010C	Total/NA
Chromium	0.099		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.015		0.0040		mg/L	1		6010C	Total/NA
Iron	7.8		0.030		mg/L	1		6010C	Total/NA
Lead	0.0052		0.0050		mg/L	1		6010C	Total/NA
Magnesium	170		0.24		mg/L	1		6010C	Total/NA
Manganese	0.26		0.010		mg/L	1		6010C	Total/NA
Nickel	0.23		0.040		mg/L	1		6010C	Total/NA
Potassium	1900		5.0		mg/L	5		6010C	Total/NA
Sodium	3500		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.091		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	4800		750		mg/L	75		310.2	Total/NA
Ammonia as N	990		200		mg/L	2		350.1	Total/NA
Nitrate	0.15		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	830		100		mg/L	10		410.4	Total/NA
Chloride	7300		100		mg/L	200		9251	Total/NA
Total Dissolved Solids	13000		100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	21		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	54		34		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	190		4.0		mg/L	4		SM 5310C	Total/NA
Turbidity	46.2				NTU	1		Field Sampling	Total/NA
Temperature	20.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.74				SU	1		Field Sampling	Total/NA
Specific Conductance	29066				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	28.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: TB — Lab Sample ID: 480-154771-12

No Detections.

Client Sample ID: 12ABLC — Lab Sample ID: 480-154840-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.16		0.0090		mg/L	1		6010C	Total/NA
Barium	0.41		0.0050		mg/L	1		6010C	Total/NA
Calcium	260		0.15		mg/L	1		6010C	Total/NA
Chromium	0.038		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.036		0.0040		mg/L	1		6010C	Total/NA
Iron	38		0.030		mg/L	1		6010C	Total/NA
Magnesium	160		0.24		mg/L	1		6010C	Total/NA
Manganese	3.8		0.010		mg/L	1		6010C	Total/NA
Nickel	0.22		0.040		mg/L	1		6010C	Total/NA
Potassium	1200		5.0		mg/L	5		6010C	Total/NA
Sodium	2900		2.0		mg/L	5		6010C	Total/NA
Alkalinity, Total	2700		800		mg/L	80		310.2	Total/NA
Ammonia as N	1400		200		mg/L	2		350.1	Total/NA
Nitrate	0.19		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	610		50		mg/L	5		410.4	Total/NA
Sulfate	1300		200		mg/L	40		9038	Total/NA
Chloride	8500		100		mg/L	200		9251	Total/NA
Total Dissolved Solids	15000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	130		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	120		57		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	200		4.0		mg/L	4		SM 5310C	Total/NA
Turbidity	240				NTU	1		Field Sampling	Total/NA
Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Specific Conductance	30414				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-51.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-154840-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 10ABLC

Date Collected: 06/11/19 13:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-7

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10		ug/L			06/13/19 01:49	10
1,1,2,2-Tetrachloroethane	ND	U	10		ug/L			06/13/19 01:49	10
1,1,2-Trichloroethane	ND	U	10		ug/L			06/13/19 01:49	10
1,1-Dichloroethane	ND	U	10		ug/L			06/13/19 01:49	10
1,1-Dichloroethene	ND	U	10		ug/L			06/13/19 01:49	10
1,2-Dichloroethane	ND	U	10		ug/L			06/13/19 01:49	10
1,2-Dichloropropane	ND	U	10		ug/L			06/13/19 01:49	10
2-Butanone	ND	U	100		ug/L			06/13/19 01:49	10
2-Hexanone	ND	U	50		ug/L			06/13/19 01:49	10
4-Methyl-2-pentanone	ND	U	50		ug/L			06/13/19 01:49	10
Acetone	ND	U	100		ug/L			06/13/19 01:49	10
Benzene	ND	U	10		ug/L			06/13/19 01:49	10
Bromoform	ND	U	10		ug/L			06/13/19 01:49	10
Bromomethane	ND	U	10		ug/L			06/13/19 01:49	10
Carbon disulfide	ND	U	10		ug/L			06/13/19 01:49	10
Carbon tetrachloride	ND	U	10		ug/L			06/13/19 01:49	10
Chlorobenzene	ND	U	10		ug/L			06/13/19 01:49	10
Dibromochloromethane	ND	U	10		ug/L			06/13/19 01:49	10
Chloroethane	ND	U	10		ug/L			06/13/19 01:49	10
Chloroform	ND	U	10		ug/L			06/13/19 01:49	10
Chloromethane	ND	U	10		ug/L			06/13/19 01:49	10
cis-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 01:49	10
Bromodichloromethane	ND	U	10		ug/L			06/13/19 01:49	10
Ethylbenzene	ND	U	10		ug/L			06/13/19 01:49	10
Methylene Chloride	ND	U	10		ug/L			06/13/19 01:49	10
Tetrachloroethene	ND	U	10		ug/L			06/13/19 01:49	10
Toluene	ND	U	10		ug/L			06/13/19 01:49	10
trans-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 01:49	10
trans-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 01:49	10
Trichloroethene	ND	U	10		ug/L			06/13/19 01:49	10
Vinyl acetate	ND	U	50		ug/L			06/13/19 01:49	10
Vinyl chloride	ND	U	10		ug/L			06/13/19 01:49	10
Xylenes, Total	ND	U	20		ug/L			06/13/19 01:49	10
cis-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 01:49	10
Styrene	ND	U	10		ug/L			06/13/19 01:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/13/19 01:49*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/13/19 01:49*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/13/19 01:49*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/13/19 01:49*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
1,2-Dichlorobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
1,3-Dichlorobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
1,4-Dichlorobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,2'-Oxybis(1-chloropropane)	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,4,5-Trichlorophenol	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10

Client Sample ID: 10ABLC
Date Collected: 06/11/19 13:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-7
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,4-Dichlorophenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,4-Dimethylphenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,4-Dinitrophenol	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,4-Dinitrotoluene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2,6-Dinitrotoluene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Chloronaphthalene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Chlorophenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Methylnaphthalene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Methylphenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Nitroaniline	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
2-Nitrophenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
3,3'-Dichlorobenzidine	ND	U	1000		ug/L		06/12/19 15:00	06/19/19 15:40	10
3-Nitroaniline	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4,6-Dinitro-2-methylphenol	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Bromophenyl phenyl ether	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Chloro-3-methylphenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Chloroaniline	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Chlorophenyl phenyl ether	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Methylphenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Nitroaniline	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
4-Nitrophenol	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Acenaphthene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Acenaphthylene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Anthracene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzo(a)anthracene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzo(a)pyrene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzo(b)fluoranthene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzo(ghi)perylene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzo(k)fluoranthene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzyl alcohol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Bis(2-chloroethoxy)methane	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Bis(2-chloroethyl)ether	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Bis(2-ethylhexyl) phthalate	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Butyl benzyl phthalate	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Chrysene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Dibenzo(a,h)anthracene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Dibenzofuran	ND	U	250		ug/L		06/12/19 15:00	06/19/19 15:40	10
Diethyl phthalate	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Dimethyl phthalate	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Di-n-butyl phthalate	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Di-n-octyl phthalate	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Fluoranthene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Fluorene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Hexachlorobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Benzoic acid	ND	U	7500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Hexachlorobutadiene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Hexachlorocyclopentadiene	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Hexachloroethane	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 10ABLC
Date Collected: 06/11/19 13:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-7
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Isophorone	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Naphthalene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Nitrobenzene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
N-Nitrosodi-n-propylamine	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
N-Nitrosodiphenylamine	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Pentachlorophenol	ND	U	2500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Phenanthrene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Phenol	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10
Pyrene	ND	U	500		ug/L		06/12/19 15:00	06/19/19 15:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*46 - 120*	*06/12/19 15:00*	*06/19/19 15:40*	*10*
2-Fluorobiphenyl	*97*		*48 - 120*	*06/12/19 15:00*	*06/19/19 15:40*	*10*
p-Terphenyl-d14	*62*		*59 - 136*	*06/12/19 15:00*	*06/19/19 15:40*	*10*
Phenol-d5	*39*		*22 - 120*	*06/12/19 15:00*	*06/19/19 15:40*	*10*
2-Fluorophenol	*60*		*35 - 120*	*06/12/19 15:00*	*06/19/19 15:40*	*10*
2,4,6-Tribromophenol	*99*		*41 - 120*	*06/12/19 15:00*	*06/19/19 15:40*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/13/19 07:42	06/18/19 21:24	1
Arsenic	**0.091**		0.0090		mg/L		06/13/19 07:42	06/18/19 21:24	1
Barium	**5.0**		0.0050		mg/L		06/13/19 07:42	06/18/19 21:24	1
Calcium	**1500**		1.5		mg/L		06/13/19 07:42	06/19/19 11:13	10
Chromium	**0.032**		0.010		mg/L		06/13/19 07:42	06/18/19 21:24	1
Cobalt	**0.0072**		0.0040		mg/L		06/13/19 07:42	06/18/19 21:24	1
Copper	ND	U	0.25		mg/L		06/13/19 07:42	06/19/19 11:13	10
Iron	**61**		0.030		mg/L		06/13/19 07:42	06/18/19 21:24	1
Lead	ND	U	0.0050		mg/L		06/13/19 07:42	06/18/19 21:24	1
Magnesium	**210**		0.24		mg/L		06/13/19 07:42	06/18/19 21:24	1
Manganese	**4.3**		0.010		mg/L		06/13/19 07:42	06/18/19 21:24	1
Nickel	**0.15**		0.040		mg/L		06/13/19 07:42	06/18/19 21:24	1
Potassium	**2300**		10		mg/L		06/13/19 07:42	06/19/19 11:13	10
Sodium	**5100**		4.0		mg/L		06/13/19 07:42	06/19/19 11:13	10
Vanadium	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 21:24	1
Zinc	ND	U	0.020		mg/L		06/13/19 07:42	06/18/19 21:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/13/19 11:33	06/13/19 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**660**		450		mg/L			06/24/19 18:37	45
Ammonia as N	**1700**		200		mg/L		07/02/19 07:00	07/08/19 09:47	2
Nitrate	ND	U	0.050		mg/L as N			06/12/19 21:34	1
Chemical Oxygen Demand	**920**		100		mg/L			06/23/19 11:14	10
Sulfate	**90**		15		mg/L			07/09/19 14:37	3
Chloride	**17000**		200		mg/L			07/09/19 15:35	400

Client Sample ID: 10ABLC

Date Collected: 06/11/19 13:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-7

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28000	BL	100		mg/L			06/17/19 09:42	1
Biochemical Oxygen Demand	44		24		mg/L			06/17/19 07:20	1
Total Organic Carbon	100		2.0		mg/L			07/05/19 23:17	2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	71		4.0		mg/L			06/14/19 11:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	126				NTU			06/11/19 13:00	1
Temperature	16.9				Degrees C			06/11/19 13:00	1
Field pH	6.91				SU			06/11/19 13:00	1
Specific Conductance	50171				umhos/cm			06/11/19 13:00	1
Field EH/ORP	-85.0				millivolts			06/11/19 13:00	1
Oxygen, Dissolved	2.3				mg/L			06/11/19 13:00	1

Client Sample ID: 11ABCLC

Date Collected: 06/11/19 13:45
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-8

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	20		ug/L			06/13/19 02:14	20
1,1,2,2-Tetrachloroethane	ND	U	20		ug/L			06/13/19 02:14	20
1,1,2-Trichloroethane	ND	U	20		ug/L			06/13/19 02:14	20
1,1-Dichloroethane	ND	U	20		ug/L			06/13/19 02:14	20
1,1-Dichloroethene	ND	U	20		ug/L			06/13/19 02:14	20
1,2-Dichloroethane	ND	U	20		ug/L			06/13/19 02:14	20
1,2-Dichloropropane	ND	U	20		ug/L			06/13/19 02:14	20
2-Butanone	ND	U	200		ug/L			06/13/19 02:14	20
2-Hexanone	ND	U	100		ug/L			06/13/19 02:14	20
4-Methyl-2-pentanone	ND	U	100		ug/L			06/13/19 02:14	20
Acetone	ND	U	200		ug/L			06/13/19 02:14	20
Benzene	ND	U	20		ug/L			06/13/19 02:14	20
Bromoform	ND	U	20		ug/L			06/13/19 02:14	20
Bromomethane	ND	U	20		ug/L			06/13/19 02:14	20
Carbon disulfide	ND	U	20		ug/L			06/13/19 02:14	20
Carbon tetrachloride	ND	U	20		ug/L			06/13/19 02:14	20
Chlorobenzene	ND	U	20		ug/L			06/13/19 02:14	20
Dibromochloromethane	ND	U	20		ug/L			06/13/19 02:14	20
Chloroethane	ND	U	20		ug/L			06/13/19 02:14	20
Chloroform	ND	U	20		ug/L			06/13/19 02:14	20
Chloromethane	ND	U	20		ug/L			06/13/19 02:14	20
cis-1,2-Dichloroethene	ND	U	20		ug/L			06/13/19 02:14	20
Bromodichloromethane	ND	U	20		ug/L			06/13/19 02:14	20
Ethylbenzene	ND	U	20		ug/L			06/13/19 02:14	20
Methylene Chloride	ND	U	20		ug/L			06/13/19 02:14	20
Tetrachloroethene	ND	U	20		ug/L			06/13/19 02:14	20
Toluene	ND	U	20		ug/L			06/13/19 02:14	20
trans-1,2-Dichloroethene	ND	U	20		ug/L			06/13/19 02:14	20
trans-1,3-Dichloropropene	ND	U	20		ug/L			06/13/19 02:14	20
Trichloroethene	ND	U	20		ug/L			06/13/19 02:14	20
Vinyl acetate	ND	U	100		ug/L			06/13/19 02:14	20
Vinyl chloride	ND	U	20		ug/L			06/13/19 02:14	20
Xylenes, Total	ND	U	40		ug/L			06/13/19 02:14	20
cis-1,3-Dichloropropene	ND	U	20		ug/L			06/13/19 02:14	20
Styrene	ND	U	20		ug/L			06/13/19 02:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*06/13/19 02:14*	*20*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/13/19 02:14*	*20*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/13/19 02:14*	*20*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/13/19 02:14*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
1,2-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
1,3-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
1,4-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,2'-Oxybis(1-chloropropane)	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,4,5-Trichlorophenol	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5

Client Sample ID: 11ABCLC
Date Collected: 06/11/19 13:45
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-8
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,4-Dichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,4-Dimethylphenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,4-Dinitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,4-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2,6-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Chloronaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Chlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Methylnaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
2-Nitrophenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
3,3'-Dichlorobenzidine	ND	U	500		ug/L		06/12/19 15:00	06/19/19 16:09	5
3-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
4,6-Dinitro-2-methylphenol	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Bromophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Chloro-3-methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Chloroaniline	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Chlorophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
4-Nitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
Acenaphthene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Acenaphthylene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Anthracene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzo(a)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzo(a)pyrene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzo(b)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzo(ghi)perylene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzo(k)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzyl alcohol	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Bis(2-chloroethoxy)methane	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Bis(2-chloroethyl)ether	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Bis(2-ethylhexyl) phthalate	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
Butyl benzyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Chrysene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Dibenzo(a,h)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Dibenzofuran	ND	U	130		ug/L		06/12/19 15:00	06/19/19 16:09	5
Diethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Dimethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Di-n-butyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Di-n-octyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Fluorene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Hexachlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Benzoic acid	ND	U	3800		ug/L		06/12/19 15:00	06/19/19 16:09	5
Hexachlorobutadiene	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5
Hexachlorocyclopentadiene	ND	U	1300		ug/L		06/12/19 15:00	06/19/19 16:09	5
Hexachloroethane	ND	U	250		ug/L		06/12/19 15:00	06/19/19 16:09	5

Client Sample ID: 11ABCLC

Date Collected: 06/11/19 13:45
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-8

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Isophorone	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Naphthalene	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Nitrobenzene	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
N-Nitrosodi-n-propylamine	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
N-Nitrosodiphenylamine	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Pentachlorophenol	ND	U	1300	ug/L		06/12/19 15:00	06/19/19 16:09	5
Phenanthrene	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Phenol	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5
Pyrene	ND	U	250	ug/L		06/12/19 15:00	06/19/19 16:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*46 - 120*	*06/12/19 15:00*	*06/19/19 16:09*	*5*
2-Fluorobiphenyl	*103*		*48 - 120*	*06/12/19 15:00*	*06/19/19 16:09*	*5*
p-Terphenyl-d14	*70*		*59 - 136*	*06/12/19 15:00*	*06/19/19 16:09*	*5*
Phenol-d5	*45*		*22 - 120*	*06/12/19 15:00*	*06/19/19 16:09*	*5*
2-Fluorophenol	*69*		*35 - 120*	*06/12/19 15:00*	*06/19/19 16:09*	*5*
2,4,6-Tribromophenol	*112*		*41 - 120*	*06/12/19 15:00*	*06/19/19 16:09*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.092**		0.080	mg/L		06/13/19 07:42	06/18/19 21:28	1
Arsenic	**0.29**		0.0090	mg/L		06/13/19 07:42	06/18/19 21:28	1
Barium	**0.52**		0.0050	mg/L		06/13/19 07:42	06/18/19 21:28	1
Calcium	**180**		0.15	mg/L		06/13/19 07:42	06/18/19 21:28	1
Chromium	**0.15**		0.010	mg/L		06/13/19 07:42	06/18/19 21:28	1
Cobalt	**0.049**		0.0040	mg/L		06/13/19 07:42	06/18/19 21:28	1
Copper	ND	U	0.025	mg/L		06/13/19 07:42	06/18/19 21:28	1
Iron	**9.3**		0.030	mg/L		06/13/19 07:42	06/18/19 21:28	1
Lead	ND	U	0.0050	mg/L		06/13/19 07:42	06/18/19 21:28	1
Magnesium	**210**		0.24	mg/L		06/13/19 07:42	06/18/19 21:28	1
Manganese	**4.5**		0.010	mg/L		06/13/19 07:42	06/18/19 21:28	1
Nickel	**0.30**		0.040	mg/L		06/13/19 07:42	06/18/19 21:28	1
Potassium	**1200**		5.0	mg/L		06/13/19 07:42	06/19/19 11:17	5
Sodium	**3200**		2.0	mg/L		06/13/19 07:42	06/19/19 11:17	5
Vanadium	**0.051**		0.025	mg/L		06/13/19 07:42	06/18/19 21:28	1
Zinc	**0.026**		0.020	mg/L		06/13/19 07:42	06/18/19 21:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/13/19 11:33	06/13/19 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**4200**		2700	mg/L			06/24/19 17:01	265
Ammonia as N	**1600**		200	mg/L		07/02/19 07:00	07/08/19 09:48	2
Nitrate	**54**		0.050	mg/L as N			06/12/19 23:40	1
Chemical Oxygen Demand	**980**		100	mg/L			06/23/19 11:14	10
Sulfate	**310**		150	mg/L			07/08/19 18:34	30
Chloride	**7900**		100	mg/L			06/24/19 16:54	200

Client Sample ID: 11ABCLC

Date Collected: 06/11/19 13:45
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-8

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12000	BL	50		mg/L			06/17/19 09:42	1
Biochemical Oxygen Demand	61		34		mg/L			06/17/19 07:24	1
Total Organic Carbon	330		5.0		mg/L			07/05/19 23:33	5

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	28		4.0		mg/L			06/14/19 11:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	56.0				NTU			06/11/19 13:45	1
Temperature	19.3				Degrees C			06/11/19 13:45	1
Field pH	7.69				SU			06/11/19 13:45	1
Specific Conductance	31513				umhos/cm			06/11/19 13:45	1
Field EH/ORP	-25.1				millivolts			06/11/19 13:45	1
Oxygen, Dissolved	2.6				mg/L			06/11/19 13:45	1

Client Sample ID: 123LC

Date Collected: 06/11/19 14:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-9

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10		ug/L			06/13/19 02:38	10
1,1,2,2-Tetrachloroethane	ND	U	10		ug/L			06/13/19 02:38	10
1,1,2-Trichloroethane	ND	U	10		ug/L			06/13/19 02:38	10
1,1-Dichloroethane	ND	U	10		ug/L			06/13/19 02:38	10
1,1-Dichloroethene	ND	U	10		ug/L			06/13/19 02:38	10
1,2-Dichloroethane	ND	U	10		ug/L			06/13/19 02:38	10
1,2-Dichloropropane	ND	U	10		ug/L			06/13/19 02:38	10
2-Butanone	ND	U	100		ug/L			06/13/19 02:38	10
2-Hexanone	ND	U	50		ug/L			06/13/19 02:38	10
4-Methyl-2-pentanone	ND	U	50		ug/L			06/13/19 02:38	10
Acetone	ND	U	100		ug/L			06/13/19 02:38	10
Benzene	ND	U	10		ug/L			06/13/19 02:38	10
Bromoform	ND	U	10		ug/L			06/13/19 02:38	10
Bromomethane	ND	U	10		ug/L			06/13/19 02:38	10
Carbon disulfide	ND	U	10		ug/L			06/13/19 02:38	10
Carbon tetrachloride	ND	U	10		ug/L			06/13/19 02:38	10
Chlorobenzene	ND	U	10		ug/L			06/13/19 02:38	10
Dibromochloromethane	ND	U	10		ug/L			06/13/19 02:38	10
Chloroethane	ND	U	10		ug/L			06/13/19 02:38	10
Chloroform	ND	U	10		ug/L			06/13/19 02:38	10
Chloromethane	ND	U	10		ug/L			06/13/19 02:38	10
cis-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 02:38	10
Bromodichloromethane	ND	U	10		ug/L			06/13/19 02:38	10
Ethylbenzene	ND	U	10		ug/L			06/13/19 02:38	10
Methylene Chloride	ND	U	10		ug/L			06/13/19 02:38	10
Tetrachloroethene	ND	U	10		ug/L			06/13/19 02:38	10
Toluene	ND	U	10		ug/L			06/13/19 02:38	10
trans-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 02:38	10
trans-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 02:38	10
Trichloroethene	ND	U	10		ug/L			06/13/19 02:38	10
Vinyl acetate	ND	U	50		ug/L			06/13/19 02:38	10
Vinyl chloride	ND	U	10		ug/L			06/13/19 02:38	10
Xylenes, Total	ND	U	20		ug/L			06/13/19 02:38	10
cis-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 02:38	10
Styrene	ND	U	10		ug/L			06/13/19 02:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/13/19 02:38*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/13/19 02:38*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/13/19 02:38*	*10*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/13/19 02:38*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
1,2-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
1,3-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
1,4-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,2'-Oxybis(1-chloropropane)	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,4,5-Trichlorophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5

Client Sample ID: 123LC
Date Collected: 06/11/19 14:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-9
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,4-Dichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,4-Dimethylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,4-Dinitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,4-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2,6-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Chloronaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Chlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Methylnaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
2-Nitrophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
3,3'-Dichlorobenzidine	ND	U	500		ug/L		06/12/19 15:00	06/20/19 18:14	5
3-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
4,6-Dinitro-2-methylphenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Bromophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Chloro-3-methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Chloroaniline	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Chlorophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
4-Nitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
Acenaphthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Acenaphthylene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzo(a)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzo(a)pyrene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzo(b)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzo(ghi)perylene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzo(k)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzyl alcohol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Bis(2-chloroethoxy)methane	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Bis(2-chloroethyl)ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Bis(2-ethylhexyl) phthalate	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
Butyl benzyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Chrysene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Dibenzo(a,h)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Dibenzofuran	ND	U	130		ug/L		06/12/19 15:00	06/20/19 18:14	5
Diethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Dimethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Di-n-butyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Di-n-octyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Fluorene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Hexachlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Benzoic acid	ND	U	3800		ug/L		06/12/19 15:00	06/20/19 18:14	5
Hexachlorobutadiene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Hexachlorocyclopentadiene	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
Hexachloroethane	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5

Client Sample ID: 123LC

Date Collected: 06/11/19 14:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-9

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Isophorone	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Naphthalene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Nitrobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
N-Nitrosodi-n-propylamine	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
N-Nitrosodiphenylamine	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Pentachlorophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 18:14	5
Phenanthrene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Phenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5
Pyrene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 18:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*46 - 120*	*06/12/19 15:00*	*06/20/19 18:14*	*5*
2-Fluorobiphenyl	*96*		*48 - 120*	*06/12/19 15:00*	*06/20/19 18:14*	*5*
p-Terphenyl-d14	*74*		*59 - 136*	*06/12/19 15:00*	*06/20/19 18:14*	*5*
Phenol-d5	*39*		*22 - 120*	*06/12/19 15:00*	*06/20/19 18:14*	*5*
2-Fluorophenol	*58*		*35 - 120*	*06/12/19 15:00*	*06/20/19 18:14*	*5*
2,4,6-Tribromophenol	*103*		*41 - 120*	*06/12/19 15:00*	*06/20/19 18:14*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.083**		0.080		mg/L		06/13/19 07:42	06/18/19 21:32	1
Arsenic	**0.16**		0.0090		mg/L		06/13/19 07:42	06/18/19 21:32	1
Barium	**1.7**		0.0050		mg/L		06/13/19 07:42	06/18/19 21:32	1
Calcium	**370**		0.15		mg/L		06/13/19 07:42	06/18/19 21:32	1
Chromium	ND	U	0.010		mg/L		06/13/19 07:42	06/18/19 21:32	1
Cobalt	**0.0084**		0.0040		mg/L		06/13/19 07:42	06/18/19 21:32	1
Copper	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 21:32	1
Iron	**19**		0.030		mg/L		06/13/19 07:42	06/18/19 21:32	1
Lead	ND	U	0.0050		mg/L		06/13/19 07:42	06/18/19 21:32	1
Magnesium	**250**		0.24		mg/L		06/13/19 07:42	06/18/19 21:32	1
Manganese	**1.2**		0.010		mg/L		06/13/19 07:42	06/18/19 21:32	1
Nickel	**0.063**		0.040		mg/L		06/13/19 07:42	06/18/19 21:32	1
Potassium	**1400**		5.0		mg/L		06/13/19 07:42	06/19/19 11:21	5
Sodium	**1900**		2.0		mg/L		06/13/19 07:42	06/19/19 11:21	5
Vanadium	**0.046**		0.025		mg/L		06/13/19 07:42	06/18/19 21:32	1
Zinc	**0.024**		0.020		mg/L		06/13/19 07:42	06/18/19 21:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/13/19 11:33	06/13/19 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**2400**		1800		mg/L			06/24/19 18:39	175
Ammonia as N	**1100**		200		mg/L		07/02/19 07:00	07/08/19 09:49	2
Nitrate	**1.1**		0.050		mg/L as N			06/12/19 23:23	1
Chemical Oxygen Demand	**630**		100		mg/L			06/23/19 11:14	10
Sulfate	ND	U	5.0		mg/L			07/08/19 17:47	1
Chloride	**6400**		75		mg/L			06/24/19 18:27	150

Client Sample ID: 123LC

Date Collected: 06/11/19 14:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-9

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000		50		mg/L			06/17/19 12:38	1
Biochemical Oxygen Demand	46		27		mg/L			06/17/19 09:58	1
Total Organic Carbon	70		2.0		mg/L			07/05/19 23:48	2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	71		4.0		mg/L			06/14/19 11:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	184				NTU			06/11/19 14:00	1
Temperature	18.0				Degrees C			06/11/19 14:00	1
Field pH	7.29				SU			06/11/19 14:00	1
Specific Conductance	23070				umhos/cm			06/11/19 14:00	1
Field EH/ORP	16.7				millivolts			06/11/19 14:00	1
Oxygen, Dissolved	3.1				mg/L			06/11/19 14:00	1

Client Sample ID: 7LC

Date Collected: 06/11/19 14:30
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-10

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10		ug/L			06/13/19 03:01	10
1,1,2,2-Tetrachloroethane	ND	U	10		ug/L			06/13/19 03:01	10
1,1,2-Trichloroethane	ND	U	10		ug/L			06/13/19 03:01	10
1,1-Dichloroethane	ND	U	10		ug/L			06/13/19 03:01	10
1,1-Dichloroethene	ND	U	10		ug/L			06/13/19 03:01	10
1,2-Dichloroethane	ND	U	10		ug/L			06/13/19 03:01	10
1,2-Dichloropropane	ND	U	10		ug/L			06/13/19 03:01	10
2-Butanone	ND	U	100		ug/L			06/13/19 03:01	10
2-Hexanone	ND	U	50		ug/L			06/13/19 03:01	10
4-Methyl-2-pentanone	ND	U	50		ug/L			06/13/19 03:01	10
Acetone	ND	U	100		ug/L			06/13/19 03:01	10
Benzene	ND	U	10		ug/L			06/13/19 03:01	10
Bromoform	ND	U	10		ug/L			06/13/19 03:01	10
Bromomethane	ND	U	10		ug/L			06/13/19 03:01	10
Carbon disulfide	ND	U	10		ug/L			06/13/19 03:01	10
Carbon tetrachloride	ND	U	10		ug/L			06/13/19 03:01	10
Chlorobenzene	ND	U	10		ug/L			06/13/19 03:01	10
Dibromochloromethane	ND	U	10		ug/L			06/13/19 03:01	10
Chloroethane	ND	U	10		ug/L			06/13/19 03:01	10
Chloroform	ND	U	10		ug/L			06/13/19 03:01	10
Chloromethane	ND	U	10		ug/L			06/13/19 03:01	10
cis-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 03:01	10
Bromodichloromethane	ND	U	10		ug/L			06/13/19 03:01	10
Ethylbenzene	ND	U	10		ug/L			06/13/19 03:01	10
Methylene Chloride	ND	U	10		ug/L			06/13/19 03:01	10
Tetrachloroethene	ND	U	10		ug/L			06/13/19 03:01	10
Toluene	ND	U	10		ug/L			06/13/19 03:01	10
trans-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 03:01	10
trans-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 03:01	10
Trichloroethene	ND	U	10		ug/L			06/13/19 03:01	10
Vinyl acetate	ND	U	50		ug/L			06/13/19 03:01	10
Vinyl chloride	ND	U	10		ug/L			06/13/19 03:01	10
Xylenes, Total	ND	U	20		ug/L			06/13/19 03:01	10
cis-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 03:01	10
Styrene	ND	U	10		ug/L			06/13/19 03:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/13/19 03:01*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/13/19 03:01*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/13/19 03:01*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/13/19 03:01*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
1,2-Dichlorobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
1,3-Dichlorobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
1,4-Dichlorobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,2'-Oxybis(1-chloropropane)	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,4,5-Trichlorophenol	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20

Client Sample ID: 7LC
Date Collected: 06/11/19 14:30
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-10
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,4-Dichlorophenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,4-Dimethylphenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,4-Dinitrophenol	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,4-Dinitrotoluene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2,6-Dinitrotoluene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Chloronaphthalene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Chlorophenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Methylnaphthalene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Methylphenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Nitroaniline	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
2-Nitrophenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
3,3'-Dichlorobenzidine	ND	U	2000		ug/L		06/12/19 15:00	06/20/19 18:43	20
3-Nitroaniline	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4,6-Dinitro-2-methylphenol	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Bromophenyl phenyl ether	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Chloro-3-methylphenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Chloroaniline	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Chlorophenyl phenyl ether	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Methylphenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Nitroaniline	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
4-Nitrophenol	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Acenaphthene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Acenaphthylene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Anthracene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzo(a)anthracene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzo(a)pyrene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzo(b)fluoranthene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzo(ghi)perylene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzo(k)fluoranthene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzyl alcohol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Bis(2-chloroethoxy)methane	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Bis(2-chloroethyl)ether	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Bis(2-ethylhexyl) phthalate	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Butyl benzyl phthalate	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Chrysene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Dibenzo(a,h)anthracene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Dibenzofuran	ND	U	500		ug/L		06/12/19 15:00	06/20/19 18:43	20
Diethyl phthalate	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Dimethyl phthalate	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Di-n-butyl phthalate	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Di-n-octyl phthalate	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Fluoranthene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Fluorene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Hexachlorobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Benzoic acid	ND	U	15000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Hexachlorobutadiene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Hexachlorocyclopentadiene	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Hexachloroethane	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20

Client Sample ID: 7LC

Date Collected: 06/11/19 14:30
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-10

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Isophorone	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Naphthalene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Nitrobenzene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
N-Nitrosodi-n-propylamine	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
N-Nitrosodiphenylamine	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Pentachlorophenol	ND	U	5000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Phenanthrene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Phenol	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20
Pyrene	ND	U	1000		ug/L		06/12/19 15:00	06/20/19 18:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*46 - 120*	*06/12/19 15:00*	*06/20/19 18:43*	*20*
2-Fluorobiphenyl	*102*		*48 - 120*	*06/12/19 15:00*	*06/20/19 18:43*	*20*
p-Terphenyl-d14	*84*		*59 - 136*	*06/12/19 15:00*	*06/20/19 18:43*	*20*
Phenol-d5	*44*		*22 - 120*	*06/12/19 15:00*	*06/20/19 18:43*	*20*
2-Fluorophenol	*63*		*35 - 120*	*06/12/19 15:00*	*06/20/19 18:43*	*20*
2,4,6-Tribromophenol	*123*	*	*41 - 120*	*06/12/19 15:00*	*06/20/19 18:43*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/13/19 07:42	06/18/19 21:36	1
Arsenic	**0.15**		0.0090		mg/L		06/13/19 07:42	06/18/19 21:36	1
Barium	**3.0**		0.0050		mg/L		06/13/19 07:42	06/18/19 21:36	1
Calcium	**770**		0.15		mg/L		06/13/19 07:42	06/18/19 21:36	1
Chromium	**0.035**		0.010		mg/L		06/13/19 07:42	06/18/19 21:36	1
Cobalt	**0.012**		0.0040		mg/L		06/13/19 07:42	06/18/19 21:36	1
Copper	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 21:36	1
Iron	**24**		0.030		mg/L		06/13/19 07:42	06/18/19 21:36	1
Lead	ND	U	0.0050		mg/L		06/13/19 07:42	06/18/19 21:36	1
Magnesium	**180**		0.24		mg/L		06/13/19 07:42	06/18/19 21:36	1
Manganese	**1.0**		0.010		mg/L		06/13/19 07:42	06/18/19 21:36	1
Nickel	**0.13**		0.040		mg/L		06/13/19 07:42	06/18/19 21:36	1
Potassium	**1500**		5.0		mg/L		06/13/19 07:42	06/19/19 11:25	5
Sodium	**2900**		2.0		mg/L		06/13/19 07:42	06/19/19 11:25	5
Vanadium	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 21:36	1
Zinc	ND	U	0.020		mg/L		06/13/19 07:42	06/18/19 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/13/19 11:33	06/13/19 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**2400**		1300		mg/L			06/24/19 18:39	125
Ammonia as N	**700**		100		mg/L		07/02/19 07:00	07/08/19 09:41	1
Nitrate	ND	U	0.050		mg/L as N			06/12/19 21:42	1
Chemical Oxygen Demand	**940**		100		mg/L			06/23/19 11:14	10
Sulfate	ND	U	5.0		mg/L			07/08/19 18:27	1
Chloride	**8000**		130		mg/L			06/24/19 16:54	250

Client Sample ID: 7LC

Date Collected: 06/11/19 14:30
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-10

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14000		500		mg/L			06/17/19 12:38	1
Biochemical Oxygen Demand	24		16		mg/L			06/17/19 06:58	1
Total Organic Carbon	120		2.0		mg/L			07/06/19 00:03	2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	110		4.0		mg/L			06/14/19 11:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	71.3				NTU			06/11/19 14:30	1
Temperature	18.6				Degrees C			06/11/19 14:30	1
Field pH	7.04				SU			06/11/19 14:30	1
Specific Conductance	26507				umhos/cm			06/11/19 14:30	1
Field EH/ORP	-75.8				millivolts			06/11/19 14:30	1
Oxygen, Dissolved	2.0				mg/L			06/11/19 14:30	1

Client Sample ID: 9ABCLC

Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10		ug/L			06/13/19 03:25	10
1,1,2,2-Tetrachloroethane	ND	U	10		ug/L			06/13/19 03:25	10
1,1,2-Trichloroethane	ND	U	10		ug/L			06/13/19 03:25	10
1,1-Dichloroethane	ND	U	10		ug/L			06/13/19 03:25	10
1,1-Dichloroethene	ND	U	10		ug/L			06/13/19 03:25	10
1,2-Dichloroethane	ND	U	10		ug/L			06/13/19 03:25	10
1,2-Dichloropropane	ND	U	10		ug/L			06/13/19 03:25	10
2-Butanone	ND	U	100		ug/L			06/13/19 03:25	10
2-Hexanone	ND	U	50		ug/L			06/13/19 03:25	10
4-Methyl-2-pentanone	ND	U	50		ug/L			06/13/19 03:25	10
Acetone	ND	U	100		ug/L			06/13/19 03:25	10
Benzene	ND	U	10		ug/L			06/13/19 03:25	10
Bromoform	ND	U	10		ug/L			06/13/19 03:25	10
Bromomethane	ND	U	10		ug/L			06/13/19 03:25	10
Carbon disulfide	ND	U	10		ug/L			06/13/19 03:25	10
Carbon tetrachloride	ND	U	10		ug/L			06/13/19 03:25	10
Chlorobenzene	ND	U	10		ug/L			06/13/19 03:25	10
Dibromochloromethane	ND	U	10		ug/L			06/13/19 03:25	10
Chloroethane	ND	U	10		ug/L			06/13/19 03:25	10
Chloroform	ND	U	10		ug/L			06/13/19 03:25	10
Chloromethane	ND	U	10		ug/L			06/13/19 03:25	10
cis-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 03:25	10
Bromodichloromethane	ND	U	10		ug/L			06/13/19 03:25	10
Ethylbenzene	ND	U	10		ug/L			06/13/19 03:25	10
Methylene Chloride	ND	U	10		ug/L			06/13/19 03:25	10
Tetrachloroethene	ND	U	10		ug/L			06/13/19 03:25	10
Toluene	ND	U	10		ug/L			06/13/19 03:25	10
trans-1,2-Dichloroethene	ND	U	10		ug/L			06/13/19 03:25	10
trans-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 03:25	10
Trichloroethene	ND	U	10		ug/L			06/13/19 03:25	10
Vinyl acetate	ND	U	50		ug/L			06/13/19 03:25	10
Vinyl chloride	ND	U	10		ug/L			06/13/19 03:25	10
Xylenes, Total	ND	U	20		ug/L			06/13/19 03:25	10
cis-1,3-Dichloropropene	ND	U	10		ug/L			06/13/19 03:25	10
Styrene	ND	U	10		ug/L			06/13/19 03:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/13/19 03:25*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/13/19 03:25*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/13/19 03:25*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/13/19 03:25*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
1,2-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
1,3-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
1,4-Dichlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,2'-Oxybis(1-chloropropane)	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,4,5-Trichlorophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5

Client Sample ID: 9ABCLC

Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,4-Dichlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,4-Dimethylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,4-Dinitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,4-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2,6-Dinitrotoluene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Chloronaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Chlorophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Methylnaphthalene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
2-Nitrophenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
3,3'-Dichlorobenzidine	ND	U	500		ug/L		06/12/19 15:00	06/20/19 19:11	5
3-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
4,6-Dinitro-2-methylphenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Bromophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Chloro-3-methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Chloroaniline	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Chlorophenyl phenyl ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Methylphenol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Nitroaniline	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
4-Nitrophenol	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
Acenaphthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Acenaphthylene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzo(a)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzo(a)pyrene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzo(b)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzo(ghi)perylene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzo(k)fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzyl alcohol	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Bis(2-chloroethoxy)methane	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Bis(2-chloroethyl)ether	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Bis(2-ethylhexyl) phthalate	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
Butyl benzyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Chrysene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Dibenzo(a,h)anthracene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Dibenzofuran	ND	U	130		ug/L		06/12/19 15:00	06/20/19 19:11	5
Diethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Dimethyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Di-n-butyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Di-n-octyl phthalate	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Fluoranthene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Fluorene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Hexachlorobenzene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Benzoic acid	ND	U	3800		ug/L		06/12/19 15:00	06/20/19 19:11	5
Hexachlorobutadiene	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5
Hexachlorocyclopentadiene	ND	U	1300		ug/L		06/12/19 15:00	06/20/19 19:11	5
Hexachloroethane	ND	U	250		ug/L		06/12/19 15:00	06/20/19 19:11	5

Client Sample ID: 9ABCLC

Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Isophorone	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Naphthalene	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Nitrobenzene	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
N-Nitrosodi-n-propylamine	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
N-Nitrosodiphenylamine	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Pentachlorophenol	ND	U	1300	ug/L		06/12/19 15:00	06/20/19 19:11	5
Phenanthrene	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Phenol	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5
Pyrene	ND	U	250	ug/L		06/12/19 15:00	06/20/19 19:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*46 - 120*	*06/12/19 15:00*	*06/20/19 19:11*	*5*
2-Fluorobiphenyl	*104*		*48 - 120*	*06/12/19 15:00*	*06/20/19 19:11*	*5*
p-Terphenyl-d14	*86*		*59 - 136*	*06/12/19 15:00*	*06/20/19 19:11*	*5*
Phenol-d5	*45*		*22 - 120*	*06/12/19 15:00*	*06/20/19 19:11*	*5*
2-Fluorophenol	*66*		*35 - 120*	*06/12/19 15:00*	*06/20/19 19:11*	*5*
2,4,6-Tribromophenol	*115*		*41 - 120*	*06/12/19 15:00*	*06/20/19 19:11*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080	mg/L		06/13/19 07:42	06/18/19 21:40	1
Arsenic	**0.36**		0.0090	mg/L		06/13/19 07:42	06/18/19 21:40	1
Barium	**1.1**		0.0050	mg/L		06/13/19 07:42	06/18/19 21:40	1
Calcium	**76**		0.15	mg/L		06/13/19 07:42	06/18/19 21:40	1
Chromium	**0.099**		0.010	mg/L		06/13/19 07:42	06/18/19 21:40	1
Cobalt	**0.015**		0.0040	mg/L		06/13/19 07:42	06/18/19 21:40	1
Copper	ND	U	0.025	mg/L		06/13/19 07:42	06/18/19 21:40	1
Iron	**7.8**		0.030	mg/L		06/13/19 07:42	06/18/19 21:40	1
Lead	**0.0052**		0.0050	mg/L		06/13/19 07:42	06/18/19 21:40	1
Magnesium	**170**		0.24	mg/L		06/13/19 07:42	06/18/19 21:40	1
Manganese	**0.26**		0.010	mg/L		06/13/19 07:42	06/18/19 21:40	1
Nickel	**0.23**		0.040	mg/L		06/13/19 07:42	06/18/19 21:40	1
Potassium	**1900**		5.0	mg/L		06/13/19 07:42	06/19/19 11:40	5
Sodium	**3500**		2.0	mg/L		06/13/19 07:42	06/19/19 11:40	5
Vanadium	**0.091**		0.025	mg/L		06/13/19 07:42	06/18/19 21:40	1
Zinc	ND	U	0.020	mg/L		06/13/19 07:42	06/18/19 21:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/13/19 11:33	06/13/19 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**4800**		750	mg/L			06/24/19 18:37	75
Ammonia as N	**990**		200	mg/L		07/02/19 07:00	07/08/19 09:58	2
Nitrate	**0.15**		0.050	mg/L as N			06/12/19 23:24	1
Chemical Oxygen Demand	**830**		100	mg/L			06/23/19 11:14	10
Sulfate	ND	U	5.0	mg/L			07/08/19 18:04	1
Chloride	**7300**		100	mg/L			06/24/19 18:27	200

Client Sample ID: 9ABCLC

Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13000		100		mg/L			06/17/19 12:38	1
Biochemical Oxygen Demand	54		34		mg/L			06/17/19 07:15	1
Total Organic Carbon	190		4.0		mg/L			07/06/19 00:18	4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	21		4.0		mg/L			06/14/19 11:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	46.2				NTU			06/11/19 15:20	1
Temperature	20.3				Degrees C			06/11/19 15:20	1
Field pH	7.74				SU			06/11/19 15:20	1
Specific Conductance	29066				umhos/cm			06/11/19 15:20	1
Field EH/ORP	28.5				millivolts			06/11/19 15:20	1
Oxygen, Dissolved	3.2				mg/L			06/11/19 15:20	1

Client Sample ID: TB

Date Collected: 06/11/19 00:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-12

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/13/19 03:49	1
2-Butanone	ND	U	10		ug/L			06/13/19 03:49	1
2-Hexanone	ND	U	5.0		ug/L			06/13/19 03:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/13/19 03:49	1
Acetone	ND	U	10		ug/L			06/13/19 03:49	1
Benzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromoform	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromomethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Carbon disulfide	ND	U	1.0		ug/L			06/13/19 03:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Chlorobenzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Dibromochloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloroform	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromodichloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Ethylbenzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Methylene Chloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Tetrachloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Toluene	ND	U	1.0		ug/L			06/13/19 03:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 03:49	1
Trichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Vinyl acetate	ND	U	5.0		ug/L			06/13/19 03:49	1
Vinyl chloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Xylenes, Total	ND	U	2.0		ug/L			06/13/19 03:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 03:49	1
Styrene	ND	U	1.0		ug/L			06/13/19 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*			*06/13/19 03:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*			*06/13/19 03:49*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*			*06/13/19 03:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*			*06/13/19 03:49*	*1*

Client Sample ID: 12ABLC

Date Collected: 06/12/19 16:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	10		ug/L			06/14/19 04:25	10
1,1,2,2-Tetrachloroethane	ND	U	10		ug/L			06/14/19 04:25	10
1,1,2-Trichloroethane	ND	U	10		ug/L			06/14/19 04:25	10
1,1-Dichloroethane	ND	U	10		ug/L			06/14/19 04:25	10
1,1-Dichloroethene	ND	U	10		ug/L			06/14/19 04:25	10
1,2-Dichloroethane	ND	U	10		ug/L			06/14/19 04:25	10
1,2-Dichloropropane	ND	U	10		ug/L			06/14/19 04:25	10
2-Butanone	ND	U	100		ug/L			06/14/19 04:25	10
2-Hexanone	ND	U	50		ug/L			06/14/19 04:25	10
4-Methyl-2-pentanone	ND	U	50		ug/L			06/14/19 04:25	10
Acetone	ND	U	100		ug/L			06/14/19 04:25	10
Benzene	ND	U	10		ug/L			06/14/19 04:25	10
Bromoform	ND	U	10		ug/L			06/14/19 04:25	10
Bromomethane	ND	U	10		ug/L			06/14/19 04:25	10
Carbon disulfide	ND	U	10		ug/L			06/14/19 04:25	10
Carbon tetrachloride	ND	U	10		ug/L			06/14/19 04:25	10
Chlorobenzene	ND	U	10		ug/L			06/14/19 04:25	10
Dibromochloromethane	ND	U	10		ug/L			06/14/19 04:25	10
Chloroethane	ND	U	10		ug/L			06/14/19 04:25	10
Chloroform	ND	U	10		ug/L			06/14/19 04:25	10
Chloromethane	ND	U	10		ug/L			06/14/19 04:25	10
cis-1,2-Dichloroethene	ND	U	10		ug/L			06/14/19 04:25	10
Bromodichloromethane	ND	U	10		ug/L			06/14/19 04:25	10
Ethylbenzene	ND	U	10		ug/L			06/14/19 04:25	10
Methylene Chloride	ND	U	10		ug/L			06/14/19 04:25	10
Tetrachloroethene	ND	U	10		ug/L			06/14/19 04:25	10
Toluene	ND	U	10		ug/L			06/14/19 04:25	10
trans-1,2-Dichloroethene	ND	U	10		ug/L			06/14/19 04:25	10
trans-1,3-Dichloropropene	ND	U	10		ug/L			06/14/19 04:25	10
Trichloroethene	ND	U	10		ug/L			06/14/19 04:25	10
Vinyl acetate	ND	U	50		ug/L			06/14/19 04:25	10
Vinyl chloride	ND	U	10		ug/L			06/14/19 04:25	10
Xylenes, Total	ND	U	20		ug/L			06/14/19 04:25	10
cis-1,3-Dichloropropene	ND	U	10		ug/L			06/14/19 04:25	10
Styrene	ND	U	10		ug/L			06/14/19 04:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/14/19 04:25*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/14/19 04:25*	*10*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/14/19 04:25*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/14/19 04:25*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
1,2-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
1,3-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
1,4-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,2'-Oxybis(1-chloropropane)	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,4,5-Trichlorophenol	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20

Client Sample ID: 12ABLC
Date Collected: 06/12/19 16:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-1
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,4-Dichlorophenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,4-Dimethylphenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,4-Dinitrophenol	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,4-Dinitrotoluene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2,6-Dinitrotoluene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Chloronaphthalene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Chlorophenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Methylnaphthalene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Methylphenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Nitroaniline	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
2-Nitrophenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
3,3'-Dichlorobenzidine	ND	U	2000		ug/L		06/14/19 16:01	06/18/19 12:20	20
3-Nitroaniline	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4,6-Dinitro-2-methylphenol	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Bromophenyl phenyl ether	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Chloro-3-methylphenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Chloroaniline	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Chlorophenyl phenyl ether	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Methylphenol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Nitroaniline	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
4-Nitrophenol	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Acenaphthene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Acenaphthylene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Anthracene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzo(a)anthracene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzo(a)pyrene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzo(b)fluoranthene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzo(ghi)perylene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzo(k)fluoranthene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzyl alcohol	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Bis(2-chloroethoxy)methane	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Bis(2-chloroethyl)ether	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Bis(2-ethylhexyl) phthalate	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Butyl benzyl phthalate	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Chrysene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Dibenzo(a,h)anthracene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Dibenzofuran	ND	U	500		ug/L		06/14/19 16:01	06/18/19 12:20	20
Diethyl phthalate	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Dimethyl phthalate	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Di-n-butyl phthalate	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Di-n-octyl phthalate	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Fluoranthene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Fluorene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Hexachlorobenzene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Benzoic acid	ND	U *	15000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Hexachlorobutadiene	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Hexachlorocyclopentadiene	ND	U	5000		ug/L		06/14/19 16:01	06/18/19 12:20	20
Hexachloroethane	ND	U	1000		ug/L		06/14/19 16:01	06/18/19 12:20	20

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 12ABLC

Date Collected: 06/12/19 16:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-1

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Isophorone	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Naphthalene	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Nitrobenzene	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
N-Nitrosodi-n-propylamine	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
N-Nitrosodiphenylamine	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Pentachlorophenol	ND	U	5000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Phenanthrene	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Phenol	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20
Pyrene	ND	U	1000	ug/L		06/14/19 16:01	06/18/19 12:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*46 - 120*	*06/14/19 16:01*	*06/18/19 12:20*	*20*
2-Fluorobiphenyl	*91*		*48 - 120*	*06/14/19 16:01*	*06/18/19 12:20*	*20*
p-Terphenyl-d14	*85*		*59 - 136*	*06/14/19 16:01*	*06/18/19 12:20*	*20*
Phenol-d5	*43*		*22 - 120*	*06/14/19 16:01*	*06/18/19 12:20*	*20*
2-Fluorophenol	*67*		*35 - 120*	*06/14/19 16:01*	*06/18/19 12:20*	*20*
2,4,6-Tribromophenol	*99*		*41 - 120*	*06/14/19 16:01*	*06/18/19 12:20*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080	mg/L		06/14/19 07:45	06/22/19 23:22	1
Arsenic	**0.16**		0.0090	mg/L		06/14/19 07:45	06/22/19 23:22	1
Barium	**0.41**		0.0050	mg/L		06/14/19 07:45	06/22/19 23:22	1
Calcium	**260**		0.15	mg/L		06/14/19 07:45	06/22/19 23:22	1
Chromium	**0.038**		0.010	mg/L		06/14/19 07:45	06/22/19 23:22	1
Cobalt	**0.036**		0.0040	mg/L		06/14/19 07:45	06/22/19 23:22	1
Copper	ND	U	0.025	mg/L		06/14/19 07:45	06/22/19 23:22	1
Iron	**38**		0.030	mg/L		06/14/19 07:45	06/22/19 23:22	1
Lead	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 23:22	1
Magnesium	**160**		0.24	mg/L		06/14/19 07:45	06/22/19 23:22	1
Manganese	**3.8**		0.010	mg/L		06/14/19 07:45	06/22/19 23:22	1
Nickel	**0.22**		0.040	mg/L		06/14/19 07:45	06/22/19 23:22	1
Potassium	**1200**		5.0	mg/L		06/14/19 07:45	06/25/19 00:52	5
Sodium	**2900**		2.0	mg/L		06/14/19 07:45	06/25/19 00:52	5
Vanadium	ND	U	0.025	mg/L		06/14/19 07:45	06/22/19 23:22	1
Zinc	ND	U	0.020	mg/L		06/14/19 07:45	06/22/19 23:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/14/19 11:20	06/14/19 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**2700**		800	mg/L			06/26/19 11:15	80
Ammonia as N	**1400**		200	mg/L		07/09/19 10:30	07/09/19 14:18	2
Nitrate	**0.19**		0.050	mg/L as N			06/13/19 21:41	1
Chemical Oxygen Demand	**610**		50	mg/L			06/25/19 11:04	5
Sulfate	**1300**		200	mg/L			07/08/19 18:29	40
Chloride	**8500**		100	mg/L			07/09/19 14:58	200

Client Sample ID: 12ABLC

Date Collected: 06/12/19 16:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-1

Matrix: Leachate

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15000		50		mg/L			06/18/19 08:12	1
Biochemical Oxygen Demand	120		57		mg/L			07/18/19 09:10	1
Total Organic Carbon	200		4.0		mg/L			07/09/19 20:56	4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	130		4.0		mg/L			06/18/19 08:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	240				NTU			06/12/19 16:15	1
Temperature	21.4				Degrees C			06/12/19 16:15	1
Field pH	7.33				SU			06/12/19 16:15	1
Specific Conductance	30414				umhos/cm			06/12/19 16:15	1
Field EH/ORP	-51.4				millivolts			06/12/19 16:15	1
Oxygen, Dissolved	0.7				mg/L			06/12/19 16:15	1

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/14/19 04:49	1
2-Butanone	ND	U	10		ug/L			06/14/19 04:49	1
2-Hexanone	ND	U	5.0		ug/L			06/14/19 04:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/14/19 04:49	1
Acetone	ND	U	10		ug/L			06/14/19 04:49	1
Benzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromoform	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromomethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Carbon disulfide	ND	U	1.0		ug/L			06/14/19 04:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Chlorobenzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Dibromochloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloroform	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromodichloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Ethylbenzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Methylene Chloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Tetrachloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Toluene	ND	U	1.0		ug/L			06/14/19 04:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 04:49	1
Trichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Vinyl acetate	ND	U	5.0		ug/L			06/14/19 04:49	1
Vinyl chloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Xylenes, Total	ND	U	2.0		ug/L			06/14/19 04:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 04:49	1
Styrene	ND	U	1.0		ug/L			06/14/19 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*			*06/14/19 04:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*			*06/14/19 04:49*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*			*06/14/19 04:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*			*06/14/19 04:49*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154771-7	10ABLC	103	104	104	97
480-154771-8	11ABCLC	98	104	98	94
480-154771-9	123LC	102	103	100	92
480-154771-10	7LC	104	96	104	98
480-154771-11	9ABCLC	102	101	104	96
480-154840-1	12ABLC	103	103	103	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-477516/5	Lab Control Sample	98	98	105	97
LCS 480-477714/5	Lab Control Sample	97	99	98	99
MB 480-477516/7	Method Blank	101	103	100	96
MB 480-477714/7	Method Blank	102	99	104	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154771-12	TB	100	102	97	96
480-154840-2	TB	102	102	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
480-154771-7	10ABLC	76	97	62	39	60	99

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (59-136)	PHL (22-120)	2FP (35-120)	TBP (41-120)
480-154771-8	11ABCLC	85	103	70	45	69	112
480-154771-9	123LC	77	96	74	39	58	103
480-154771-10	7LC	79	102	84	44	63	123 *
480-154771-11	9ABCLC	85	104	86	45	66	115
480-154840-1	12ABLC	75	91	85	43	67	99

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (59-136)	PHL (22-120)	2FP (35-120)	TBP (41-120)
LCS 480-477465/2-A	Lab Control Sample	88	96	104	51	67	104
LCS 480-477465/2-A	Lab Control Sample	82	94	104	50	67	113
LCS 480-477905/2-A	Lab Control Sample	85	95	98	53	67	105
LCSD 480-477465/3-A	Lab Control Sample Dup	86	96	106	54	71	105
LCSD 480-477465/3-A	Lab Control Sample Dup	85	97	107	52	70	111
LCSD 480-477905/3-A	Lab Control Sample Dup	91	98	99	56	70	106
MB 480-477465/1-A	Method Blank	82	93	101	44	63	88
MB 480-477465/1-A	Method Blank	79	97	102	42	58	89
MB 480-477905/1-A	Method Blank	89	97	104	50	68	92

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-477516/7
Matrix: Water
Analysis Batch: 477516

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/12/19 21:31	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/12/19 21:31	1
2-Butanone	ND	U	10		ug/L			06/12/19 21:31	1
2-Hexanone	ND	U	5.0		ug/L			06/12/19 21:31	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/12/19 21:31	1
Acetone	ND	U	10		ug/L			06/12/19 21:31	1
Benzene	ND	U	1.0		ug/L			06/12/19 21:31	1
Bromoform	ND	U	1.0		ug/L			06/12/19 21:31	1
Bromomethane	ND	U	1.0		ug/L			06/12/19 21:31	1
Carbon disulfide	ND	U	1.0		ug/L			06/12/19 21:31	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/12/19 21:31	1
Chlorobenzene	ND	U	1.0		ug/L			06/12/19 21:31	1
Dibromochloromethane	ND	U	1.0		ug/L			06/12/19 21:31	1
Chloroethane	ND	U	1.0		ug/L			06/12/19 21:31	1
Chloroform	ND	U	1.0		ug/L			06/12/19 21:31	1
Chloromethane	ND	U	1.0		ug/L			06/12/19 21:31	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/12/19 21:31	1
Bromodichloromethane	ND	U	1.0		ug/L			06/12/19 21:31	1
Ethylbenzene	ND	U	1.0		ug/L			06/12/19 21:31	1
Methylene Chloride	ND	U	1.0		ug/L			06/12/19 21:31	1
Tetrachloroethene	ND	U	1.0		ug/L			06/12/19 21:31	1
Toluene	ND	U	1.0		ug/L			06/12/19 21:31	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/12/19 21:31	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/12/19 21:31	1
Trichloroethene	ND	U	1.0		ug/L			06/12/19 21:31	1
Vinyl acetate	ND	U	5.0		ug/L			06/12/19 21:31	1
Vinyl chloride	ND	U	1.0		ug/L			06/12/19 21:31	1
Xylenes, Total	ND	U	2.0		ug/L			06/12/19 21:31	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/12/19 21:31	1
Styrene	ND	U	1.0		ug/L			06/12/19 21:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/12/19 21:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/12/19 21:31*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/12/19 21:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/12/19 21:31*	*1*

Lab Sample ID: LCS 480-477516/5
Matrix: Water
Analysis Batch: 477516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	26.8		ug/L		107	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-477516/5
Matrix: Water
Analysis Batch: 477516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	22.6		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	23.5		ug/L		94	66 - 127
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	23.1		ug/L		92	76 - 120
2-Butanone	125	95.5		ug/L		76	57 - 140
2-Hexanone	125	105		ug/L		84	65 - 127
4-Methyl-2-pentanone	125	107		ug/L		85	71 - 125
Acetone	125	102		ug/L		82	56 - 142
Benzene	25.0	23.1		ug/L		92	71 - 124
Bromoform	25.0	25.6		ug/L		102	61 - 132
Bromomethane	25.0	23.8		ug/L		95	55 - 144
Carbon disulfide	25.0	24.1		ug/L		96	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		108	72 - 134
Chlorobenzene	25.0	23.6		ug/L		94	80 - 120
Dibromochloromethane	25.0	27.0		ug/L		108	75 - 125
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	21.8		ug/L		87	73 - 127
Chloromethane	25.0	22.9		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124
Bromodichloromethane	25.0	25.3		ug/L		101	80 - 122
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	80 - 120
Trichloroethene	25.0	23.3		ug/L		93	74 - 123
Vinyl acetate	50.0	45.1		ug/L		90	50 - 144
Vinyl chloride	25.0	25.5		ug/L		102	65 - 133
Xylenes, Total	50.0	48.3		ug/L		97	76 - 122
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	74 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 480-477714/7
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/13/19 22:05	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/13/19 22:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-477714/7
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/13/19 22:05	1
2-Butanone	ND	U	10		ug/L			06/13/19 22:05	1
2-Hexanone	ND	U	5.0		ug/L			06/13/19 22:05	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/13/19 22:05	1
Acetone	ND	U	10		ug/L			06/13/19 22:05	1
Benzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromoform	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromomethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Carbon disulfide	ND	U	1.0		ug/L			06/13/19 22:05	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Chlorobenzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Dibromochloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloroform	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromodichloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Ethylbenzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Methylene Chloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Tetrachloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Toluene	ND	U	1.0		ug/L			06/13/19 22:05	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 22:05	1
Trichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Vinyl acetate	ND	U	5.0		ug/L			06/13/19 22:05	1
Vinyl chloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Xylenes, Total	ND	U	2.0		ug/L			06/13/19 22:05	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 22:05	1
Styrene	ND	U	1.0		ug/L			06/13/19 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/13/19 22:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/13/19 22:05*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/13/19 22:05*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/13/19 22:05*	*1*

Lab Sample ID: LCS 480-477714/5
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	27.8		ug/L		111	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	22.9		ug/L		92	76 - 120		
1,1,2-Trichloroethane			25.0	23.8		ug/L		95	76 - 122		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-477714/5
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	23.2		ug/L		93	66 - 127
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
2-Butanone	125	93.8		ug/L		75	57 - 140
2-Hexanone	125	102		ug/L		81	65 - 127
4-Methyl-2-pentanone	125	105		ug/L		84	71 - 125
Acetone	125	99.9		ug/L		80	56 - 142
Benzene	25.0	22.9		ug/L		92	71 - 124
Bromoform	25.0	28.0		ug/L		112	61 - 132
Bromomethane	25.0	24.9		ug/L		100	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	27.3		ug/L		109	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Dibromochloromethane	25.0	27.8		ug/L		111	75 - 125
Chloroethane	25.0	25.2		ug/L		101	69 - 136
Chloroform	25.0	21.7		ug/L		87	73 - 127
Chloromethane	25.0	23.1		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
Methylene Chloride	25.0	21.9		ug/L		88	75 - 124
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl acetate	50.0	43.2		ug/L		86	50 - 144
Vinyl chloride	25.0	25.6		ug/L		103	65 - 133
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	74 - 124
Styrene	25.0	25.9		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
1,2-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
1,3-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,2'-Oxybis(1-chloropropane)	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4,5-Trichlorophenol	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,4-Dinitrotoluene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2,6-Dinitrotoluene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Chloronaphthalene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Chlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Methylnaphthalene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
2-Nitrophenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
3,3'-Dichlorobenzidine	ND	U	20		ug/L		06/12/19 15:00	06/19/19 09:24	1
3-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Bromophenyl phenyl ether	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Chloroaniline	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Chlorophenyl phenyl ether	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
4-Nitrophenol	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
Acenaphthene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Acenaphthylene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Anthracene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzo(a)anthracene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzo(a)pyrene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzo(b)fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzo(ghi)perylene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzo(k)fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzyl alcohol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Bis(2-chloroethoxy)methane	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Bis(2-chloroethyl)ether	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Bis(2-ethylhexyl) phthalate	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
Butyl benzyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Chrysene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Dibenzo(a,h)anthracene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Dibenzofuran	ND	U	5.0		ug/L		06/12/19 15:00	06/19/19 09:24	1
Diethyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Dimethyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Di-n-butyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Di-n-octyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Fluorene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Hexachlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Benzoic acid	ND	U	150		ug/L		06/12/19 15:00	06/19/19 09:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Hexachlorocyclopentadiene	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
Hexachloroethane	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Indeno(1,2,3-cd)pyrene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Isophorone	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Naphthalene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Nitrobenzene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
N-Nitrosodi-n-propylamine	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
N-Nitrosodiphenylamine	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Pentachlorophenol	ND	U	50		ug/L		06/12/19 15:00	06/19/19 09:24	1
Phenanthrene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Phenol	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1
Pyrene	ND	U	10		ug/L		06/12/19 15:00	06/19/19 09:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*46 - 120*	*06/12/19 15:00*	*06/19/19 09:24*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*06/12/19 15:00*	*06/19/19 09:24*	*1*
p-Terphenyl-d14	*101*		*59 - 136*	*06/12/19 15:00*	*06/19/19 09:24*	*1*
Phenol-d5	*44*		*22 - 120*	*06/12/19 15:00*	*06/19/19 09:24*	*1*
2-Fluorophenol	*63*		*35 - 120*	*06/12/19 15:00*	*06/19/19 09:24*	*1*
2,4,6-Tribromophenol	*88*		*41 - 120*	*06/12/19 15:00*	*06/19/19 09:24*	*1*

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
1,2-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
1,3-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
1,4-Dichlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,2'-Oxybis(1-chloropropane)	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4,5-Trichlorophenol	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,4-Dinitrotoluene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2,6-Dinitrotoluene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Chloronaphthalene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Chlorophenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Methylnaphthalene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
2-Nitrophenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
3,3'-Dichlorobenzidine	ND	U	20		ug/L		06/12/19 15:00	06/20/19 15:19	1
3-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Chloroaniline	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Chlorophenyl phenyl ether	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Methylphenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Nitroaniline	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
4-Nitrophenol	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
Acenaphthene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Acenaphthylene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Anthracene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzo(a)anthracene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzo(a)pyrene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzo(b)fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzo(ghi)perylene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzo(k)fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzyl alcohol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Bis(2-chloroethoxy)methane	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Bis(2-chloroethyl)ether	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Bis(2-ethylhexyl) phthalate	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
Butyl benzyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Chrysene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Dibenzo(a,h)anthracene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Dibenzofuran	ND	U	5.0		ug/L		06/12/19 15:00	06/20/19 15:19	1
Diethyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Dimethyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Di-n-butyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Di-n-octyl phthalate	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Fluoranthene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Fluorene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Hexachlorobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Benzoic acid	ND	U	150		ug/L		06/12/19 15:00	06/20/19 15:19	1
Hexachlorobutadiene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Hexachlorocyclopentadiene	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
Hexachloroethane	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Indeno(1,2,3-cd)pyrene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Isophorone	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Naphthalene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Nitrobenzene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
N-Nitrosodi-n-propylamine	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
N-Nitrosodiphenylamine	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Pentachlorophenol	ND	U	50		ug/L		06/12/19 15:00	06/20/19 15:19	1
Phenanthrene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Phenol	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1
Pyrene	ND	U	10		ug/L		06/12/19 15:00	06/20/19 15:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*46 - 120*	*06/12/19 15:00*	*06/20/19 15:19*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*06/12/19 15:00*	*06/20/19 15:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477465/1-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477465

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	102		59 - 136	06/12/19 15:00	06/20/19 15:19	1
Phenol-d5	42		22 - 120	06/12/19 15:00	06/20/19 15:19	1
2-Fluorophenol	58		35 - 120	06/12/19 15:00	06/20/19 15:19	1
2,4,6-Tribromophenol	89		41 - 120	06/12/19 15:00	06/20/19 15:19	1

Lab Sample ID: LCS 480-477465/2-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	32.0	27.6		ug/L		86	40 - 120
1,2-Dichlorobenzene	32.0	25.2		ug/L		79	49 - 120
1,3-Dichlorobenzene	32.0	25.0		ug/L		78	50 - 120
1,4-Dichlorobenzene	32.0	25.0		ug/L		78	51 - 120
2,2'-Oxybis(1-chloropropane)	32.0	18.2		ug/L		57	21 - 136
2,4,5-Trichlorophenol	32.0	32.6	J	ug/L		102	65 - 126
2,4,6-Trichlorophenol	32.0	30.1		ug/L		94	64 - 120
2,4-Dichlorophenol	32.0	29.6		ug/L		92	63 - 120
2,4-Dimethylphenol	32.0	29.0		ug/L		91	47 - 120
2,4-Dinitrophenol	64.0	55.2		ug/L		86	31 - 137
2,4-Dinitrotoluene	32.0	34.1		ug/L		107	69 - 120
2,6-Dinitrotoluene	32.0	33.0		ug/L		103	68 - 120
2-Chloronaphthalene	32.0	29.5		ug/L		92	58 - 120
2-Chlorophenol	32.0	27.2		ug/L		85	48 - 120
2-Methylnaphthalene	32.0	29.9		ug/L		93	59 - 120
2-Methylphenol	32.0	25.6		ug/L		80	39 - 120
2-Nitroaniline	32.0	29.4	J	ug/L		92	54 - 127
2-Nitrophenol	32.0	32.5		ug/L		101	52 - 125
3,3'-Dichlorobenzidine	64.0	72.1		ug/L		113	49 - 135
3-Nitroaniline	32.0	25.7	J	ug/L		80	51 - 120
4,6-Dinitro-2-methylphenol	64.0	64.1		ug/L		100	46 - 136
4-Bromophenyl phenyl ether	32.0	31.6		ug/L		99	65 - 120
4-Chloro-3-methylphenol	32.0	31.4		ug/L		98	61 - 123
4-Chloroaniline	32.0	22.7		ug/L		71	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.1		ug/L		100	62 - 120
4-Methylphenol	32.0	23.5		ug/L		74	29 - 131
4-Nitroaniline	32.0	30.4	J	ug/L		95	65 - 120
4-Nitrophenol	64.0	56.7		ug/L		89	45 - 120
Acenaphthene	32.0	30.7		ug/L		96	60 - 120
Acenaphthylene	32.0	32.9		ug/L		103	63 - 120
Anthracene	32.0	32.7		ug/L		102	67 - 120
Benzo(a)anthracene	32.0	32.8		ug/L		102	70 - 121
Benzo(a)pyrene	32.0	31.0		ug/L		97	60 - 123
Benzo(b)fluoranthene	32.0	34.5		ug/L		108	66 - 126
Benzo(ghi)perylene	32.0	34.3		ug/L		107	66 - 150
Benzo(k)fluoranthene	32.0	33.2		ug/L		104	65 - 124
Benzyl alcohol	32.0	23.6		ug/L		74	41 - 126
Bis(2-chloroethoxy)methane	32.0	26.0		ug/L		81	50 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477465/2-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	32.0	24.8		ug/L		77	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	35.0	J	ug/L		109	63 - 139
Butyl benzyl phthalate	32.0	33.0		ug/L		103	70 - 129
Chrysene	32.0	32.6		ug/L		102	69 - 120
Dibenzo(a,h)anthracene	32.0	34.1		ug/L		107	65 - 135
Dibenzofuran	32.0	32.2		ug/L		101	66 - 120
Diethyl phthalate	32.0	35.4		ug/L		111	59 - 127
Dimethyl phthalate	32.0	33.9		ug/L		106	68 - 120
Di-n-butyl phthalate	32.0	36.4		ug/L		114	69 - 131
Di-n-octyl phthalate	32.0	36.5		ug/L		114	63 - 140
Fluoranthene	32.0	35.1		ug/L		110	69 - 126
Fluorene	32.0	32.2		ug/L		101	66 - 120
Hexachlorobenzene	32.0	33.0		ug/L		103	61 - 120
Benzoic acid	256	ND	U	ug/L		36	10 - 120
Hexachlorobutadiene	32.0	29.3		ug/L		92	35 - 120
Hexachlorocyclopentadiene	32.0	17.4	J	ug/L		54	31 - 120
Hexachloroethane	32.0	24.7		ug/L		77	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	34.1		ug/L		107	69 - 146
Isophorone	32.0	28.2		ug/L		88	55 - 120
Naphthalene	32.0	28.2		ug/L		88	57 - 120
Nitrobenzene	32.0	27.7		ug/L		86	53 - 123
N-Nitrosodi-n-propylamine	32.0	25.1		ug/L		79	32 - 140
N-Nitrosodiphenylamine	32.0	29.7		ug/L		93	61 - 120
Pentachlorophenol	64.0	39.2	J	ug/L		61	29 - 136
Phenanthrene	32.0	33.6		ug/L		105	68 - 120
Phenol	32.0	16.8		ug/L		52	17 - 120
Pyrene	32.0	33.7		ug/L		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*88*		*46 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
p-Terphenyl-d14	*104*		*59 - 136*
Phenol-d5	*51*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*104*		*41 - 120*

Lab Sample ID: LCS 480-477465/2-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	32.0	28.3		ug/L		88	40 - 120
1,2-Dichlorobenzene	32.0	25.5		ug/L		80	49 - 120
1,3-Dichlorobenzene	32.0	24.9		ug/L		78	50 - 120
1,4-Dichlorobenzene	32.0	25.2		ug/L		79	51 - 120
2,2'-Oxybis(1-chloropropane)	32.0	15.6		ug/L		49	21 - 136
2,4,5-Trichlorophenol	32.0	31.5	J	ug/L		98	65 - 126
2,4,6-Trichlorophenol	32.0	30.9		ug/L		97	64 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477465/2-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	32.0	29.8		ug/L		93	63 - 120
2,4-Dimethylphenol	32.0	29.3		ug/L		92	47 - 120
2,4-Dinitrophenol	64.0	73.1		ug/L		114	31 - 137
2,4-Dinitrotoluene	32.0	35.9		ug/L		112	69 - 120
2,6-Dinitrotoluene	32.0	33.0		ug/L		103	68 - 120
2-Chloronaphthalene	32.0	29.4		ug/L		92	58 - 120
2-Chlorophenol	32.0	27.3		ug/L		85	48 - 120
2-Methylnaphthalene	32.0	30.6		ug/L		96	59 - 120
2-Methylphenol	32.0	24.9		ug/L		78	39 - 120
2-Nitroaniline	32.0	29.3	J	ug/L		91	54 - 127
2-Nitrophenol	32.0	31.8		ug/L		99	52 - 125
3,3'-Dichlorobenzidine	64.0	75.5		ug/L		118	49 - 135
3-Nitroaniline	32.0	26.1	J	ug/L		81	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.2		ug/L		119	46 - 136
4-Bromophenyl phenyl ether	32.0	32.2		ug/L		101	65 - 120
4-Chloro-3-methylphenol	32.0	31.9		ug/L		100	61 - 123
4-Chloroaniline	32.0	23.9		ug/L		75	30 - 120
4-Chlorophenyl phenyl ether	32.0	33.5		ug/L		105	62 - 120
4-Methylphenol	32.0	24.0		ug/L		75	29 - 131
4-Nitroaniline	32.0	29.7	J	ug/L		93	65 - 120
4-Nitrophenol	64.0	65.8		ug/L		103	45 - 120
Acenaphthene	32.0	31.2		ug/L		98	60 - 120
Acenaphthylene	32.0	32.4		ug/L		101	63 - 120
Anthracene	32.0	32.6		ug/L		102	67 - 120
Benzo(a)anthracene	32.0	33.2		ug/L		104	70 - 121
Benzo(a)pyrene	32.0	30.9		ug/L		96	60 - 123
Benzo(b)fluoranthene	32.0	34.9		ug/L		109	66 - 126
Benzo(ghi)perylene	32.0	33.3		ug/L		104	66 - 150
Benzo(k)fluoranthene	32.0	33.8		ug/L		106	65 - 124
Benzyl alcohol	32.0	23.5		ug/L		73	41 - 126
Bis(2-chloroethoxy)methane	32.0	24.9		ug/L		78	50 - 128
Bis(2-chloroethyl)ether	32.0	24.0		ug/L		75	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.0	J	ug/L		106	63 - 139
Butyl benzyl phthalate	32.0	32.5		ug/L		102	70 - 129
Chrysene	32.0	33.0		ug/L		103	69 - 120
Dibenzo(a,h)anthracene	32.0	32.9		ug/L		103	65 - 135
Dibenzofuran	32.0	31.6		ug/L		99	66 - 120
Diethyl phthalate	32.0	37.2		ug/L		116	59 - 127
Dimethyl phthalate	32.0	34.6		ug/L		108	68 - 120
Di-n-butyl phthalate	32.0	35.9		ug/L		112	69 - 131
Di-n-octyl phthalate	32.0	35.2		ug/L		110	63 - 140
Fluoranthene	32.0	34.9		ug/L		109	69 - 126
Fluorene	32.0	32.5		ug/L		102	66 - 120
Hexachlorobenzene	32.0	34.3		ug/L		107	61 - 120
Benzoic acid	256	ND	U	ug/L		34	10 - 120
Hexachlorobutadiene	32.0	31.1		ug/L		97	35 - 120
Hexachlorocyclopentadiene	32.0	22.7	J	ug/L		71	31 - 120
Hexachloroethane	32.0	25.3		ug/L		79	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	32.7		ug/L		102	69 - 146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477465/2-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477465

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Isophorone			32.0	27.1		ug/L		85	55 - 120		
Naphthalene			32.0	27.8		ug/L		87	57 - 120		
Nitrobenzene			32.0	27.7		ug/L		87	53 - 123		
N-Nitrosodi-n-propylamine			32.0	24.4		ug/L		76	32 - 140		
N-Nitrosodiphenylamine			32.0	29.7		ug/L		93	61 - 120		
Pentachlorophenol			64.0	46.9	J	ug/L		73	29 - 136		
Phenanthrene			32.0	33.0		ug/L		103	68 - 120		
Phenol			32.0	16.4		ug/L		51	17 - 120		
Pyrene			32.0	32.8		ug/L		103	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*82*		*46 - 120*
2-Fluorobiphenyl	*94*		*48 - 120*
p-Terphenyl-d14	*104*		*59 - 136*
Phenol-d5	*50*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*113*		*41 - 120*

Lab Sample ID: LCSD 480-477465/3-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477465

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			32.0	29.5		ug/L		92	40 - 120	7	30
1,2-Dichlorobenzene			32.0	27.2		ug/L		85	49 - 120	8	29
1,3-Dichlorobenzene			32.0	27.3		ug/L		85	50 - 120	9	37
1,4-Dichlorobenzene			32.0	27.2		ug/L		85	51 - 120	8	36
2,2'-Oxybis(1-chloropropane)			32.0	19.1		ug/L		60	21 - 136	5	24
2,4,5-Trichlorophenol			32.0	32.3	J	ug/L		101	65 - 126	1	18
2,4,6-Trichlorophenol			32.0	31.2		ug/L		98	64 - 120	4	19
2,4-Dichlorophenol			32.0	30.7		ug/L		96	63 - 120	4	19
2,4-Dimethylphenol			32.0	27.5		ug/L		86	47 - 120	5	42
2,4-Dinitrophenol			64.0	56.0		ug/L		87	31 - 137	1	22
2,4-Dinitrotoluene			32.0	34.6		ug/L		108	69 - 120	1	20
2,6-Dinitrotoluene			32.0	33.7		ug/L		105	68 - 120	2	15
2-Chloronaphthalene			32.0	30.6		ug/L		96	58 - 120	3	21
2-Chlorophenol			32.0	28.3		ug/L		88	48 - 120	4	25
2-Methylnaphthalene			32.0	31.5		ug/L		99	59 - 120	5	21
2-Methylphenol			32.0	26.6		ug/L		83	39 - 120	4	27
2-Nitroaniline			32.0	29.9	J	ug/L		93	54 - 127	2	15
2-Nitrophenol			32.0	33.9		ug/L		106	52 - 125	4	18
3,3'-Dichlorobenzidine			64.0	72.5		ug/L		113	49 - 135	1	25
3-Nitroaniline			32.0	26.3	J	ug/L		82	51 - 120	2	19
4,6-Dinitro-2-methylphenol			64.0	66.6		ug/L		104	46 - 136	4	15
4-Bromophenyl phenyl ether			32.0	32.3		ug/L		101	65 - 120	2	15
4-Chloro-3-methylphenol			32.0	31.6		ug/L		99	61 - 123	1	27
4-Chloroaniline			32.0	22.5		ug/L		70	30 - 120	1	22
4-Chlorophenyl phenyl ether			32.0	32.9		ug/L		103	62 - 120	2	16

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-477465/3-A
Matrix: Water
Analysis Batch: 478399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477465

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methylphenol			32.0	24.6		ug/L		77	29 - 131	5	24
4-Nitroaniline			32.0	30.9	J	ug/L		96	65 - 120	1	24
4-Nitrophenol			64.0	53.2		ug/L		83	45 - 120	6	48
Acenaphthene			32.0	32.2		ug/L		101	60 - 120	5	24
Acenaphthylene			32.0	33.5		ug/L		105	63 - 120	2	18
Anthracene			32.0	32.8		ug/L		102	67 - 120	0	15
Benzo(a)anthracene			32.0	34.1		ug/L		106	70 - 121	4	15
Benzo(a)pyrene			32.0	31.0		ug/L		97	60 - 123	0	15
Benzo(b)fluoranthene			32.0	35.4		ug/L		111	66 - 126	3	15
Benzo(ghi)perylene			32.0	34.5		ug/L		108	66 - 150	0	15
Benzo(k)fluoranthene			32.0	33.1		ug/L		104	65 - 124	0	22
Benzyl alcohol			32.0	22.1		ug/L		69	41 - 126	7	34
Bis(2-chloroethoxy)methane			32.0	27.4		ug/L		86	50 - 128	5	17
Bis(2-chloroethyl)ether			32.0	26.9		ug/L		84	44 - 120	8	21
Bis(2-ethylhexyl) phthalate			32.0	36.0	J	ug/L		113	63 - 139	3	15
Butyl benzyl phthalate			32.0	33.9		ug/L		106	70 - 129	3	16
Chrysene			32.0	33.8		ug/L		106	69 - 120	4	15
Dibenzo(a,h)anthracene			32.0	34.7		ug/L		108	65 - 135	2	15
Dibenzofuran			32.0	32.7		ug/L		102	66 - 120	1	15
Diethyl phthalate			32.0	35.7		ug/L		112	59 - 127	1	15
Dimethyl phthalate			32.0	35.0		ug/L		109	68 - 120	3	15
Di-n-butyl phthalate			32.0	36.7		ug/L		115	69 - 131	1	15
Di-n-octyl phthalate			32.0	37.0		ug/L		116	63 - 140	1	16
Fluoranthene			32.0	35.5		ug/L		111	69 - 126	1	15
Fluorene			32.0	33.0		ug/L		103	66 - 120	2	15
Hexachlorobenzene			32.0	33.3		ug/L		104	61 - 120	1	15
Benzoic acid			256	ND	U	ug/L		32	10 - 120	10	50
Hexachlorobutadiene			32.0	32.3		ug/L		101	35 - 120	10	44
Hexachlorocyclopentadiene			32.0	20.3	J	ug/L		63	31 - 120	15	49
Hexachloroethane			32.0	26.8		ug/L		84	43 - 120	8	46
Indeno(1,2,3-cd)pyrene			32.0	34.0		ug/L		106	69 - 146	0	15
Isophorone			32.0	29.2		ug/L		91	55 - 120	3	17
Naphthalene			32.0	29.7		ug/L		93	57 - 120	5	29
Nitrobenzene			32.0	28.9		ug/L		90	53 - 123	4	24
N-Nitrosodi-n-propylamine			32.0	26.1		ug/L		82	32 - 140	4	31
N-Nitrosodiphenylamine			32.0	30.6		ug/L		96	61 - 120	3	15
Pentachlorophenol			64.0	39.7	J	ug/L		62	29 - 136	1	37
Phenanthrene			32.0	34.0		ug/L		106	68 - 120	1	15
Phenol			32.0	17.9		ug/L		56	17 - 120	7	34
Pyrene			32.0	34.8		ug/L		109	70 - 125	3	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*86*		*46 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
p-Terphenyl-d14	*106*		*59 - 136*
Phenol-d5	*54*		*22 - 120*
2-Fluorophenol	*71*		*35 - 120*
2,4,6-Tribromophenol	*105*		*41 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-477465/3-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	30.0		ug/L		94	40 - 120	6	30
1,2-Dichlorobenzene	32.0	27.4		ug/L		86	49 - 120	7	29
1,3-Dichlorobenzene	32.0	27.6		ug/L		86	50 - 120	10	37
1,4-Dichlorobenzene	32.0	27.1		ug/L		85	51 - 120	7	36
2,2'-Oxybis(1-chloropropane)	32.0	16.6		ug/L		52	21 - 136	6	24
2,4,5-Trichlorophenol	32.0	33.1	J	ug/L		103	65 - 126	5	18
2,4,6-Trichlorophenol	32.0	31.1		ug/L		97	64 - 120	0	19
2,4-Dichlorophenol	32.0	31.2		ug/L		98	63 - 120	5	19
2,4-Dimethylphenol	32.0	27.0		ug/L		85	47 - 120	8	42
2,4-Dinitrophenol	64.0	73.3		ug/L		115	31 - 137	0	22
2,4-Dinitrotoluene	32.0	36.2		ug/L		113	69 - 120	1	20
2,6-Dinitrotoluene	32.0	34.3		ug/L		107	68 - 120	4	15
2-Chloronaphthalene	32.0	30.6		ug/L		96	58 - 120	4	21
2-Chlorophenol	32.0	28.7		ug/L		90	48 - 120	5	25
2-Methylnaphthalene	32.0	31.8		ug/L		99	59 - 120	4	21
2-Methylphenol	32.0	25.5		ug/L		80	39 - 120	2	27
2-Nitroaniline	32.0	29.7	J	ug/L		93	54 - 127	2	15
2-Nitrophenol	32.0	33.4		ug/L		104	52 - 125	5	18
3,3'-Dichlorobenzidine	64.0	76.8		ug/L		120	49 - 135	2	25
3-Nitroaniline	32.0	26.6	J	ug/L		83	51 - 120	2	19
4,6-Dinitro-2-methylphenol	64.0	77.4		ug/L		121	46 - 136	1	15
4-Bromophenyl phenyl ether	32.0	33.1		ug/L		103	65 - 120	3	15
4-Chloro-3-methylphenol	32.0	32.1		ug/L		100	61 - 123	1	27
4-Chloroaniline	32.0	24.0		ug/L		75	30 - 120	0	22
4-Chlorophenyl phenyl ether	32.0	33.7		ug/L		105	62 - 120	1	16
4-Methylphenol	32.0	24.9		ug/L		78	29 - 131	4	24
4-Nitroaniline	32.0	30.8	J	ug/L		96	65 - 120	4	24
4-Nitrophenol	64.0	65.8		ug/L		103	45 - 120	0	48
Acenaphthene	32.0	32.1		ug/L		100	60 - 120	3	24
Acenaphthylene	32.0	32.9		ug/L		103	63 - 120	2	18
Anthracene	32.0	32.5		ug/L		102	67 - 120	0	15
Benzo(a)anthracene	32.0	33.9		ug/L		106	70 - 121	2	15
Benzo(a)pyrene	32.0	31.4		ug/L		98	60 - 123	2	15
Benzo(b)fluoranthene	32.0	35.5		ug/L		111	66 - 126	2	15
Benzo(ghi)perylene	32.0	33.4		ug/L		104	66 - 150	0	15
Benzo(k)fluoranthene	32.0	34.7		ug/L		108	65 - 124	3	22
Benzyl alcohol	32.0	24.7		ug/L		77	41 - 126	5	34
Bis(2-chloroethoxy)methane	32.0	26.2		ug/L		82	50 - 128	5	17
Bis(2-chloroethyl)ether	32.0	24.8		ug/L		77	44 - 120	3	21
Bis(2-ethylhexyl) phthalate	32.0	35.4	J	ug/L		111	63 - 139	4	15
Butyl benzyl phthalate	32.0	33.2		ug/L		104	70 - 129	2	16
Chrysene	32.0	34.0		ug/L		106	69 - 120	3	15
Dibenzo(a,h)anthracene	32.0	33.8		ug/L		106	65 - 135	3	15
Dibenzofuran	32.0	32.7		ug/L		102	66 - 120	3	15
Diethyl phthalate	32.0	36.4		ug/L		114	59 - 127	2	15
Dimethyl phthalate	32.0	34.9		ug/L		109	68 - 120	1	15
Di-n-butyl phthalate	32.0	36.4		ug/L		114	69 - 131	1	15
Di-n-octyl phthalate	32.0	36.0		ug/L		113	63 - 140	2	16

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-477465/3-A
Matrix: Water
Analysis Batch: 478824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477465

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			32.0	35.6		ug/L		111	69 - 126	2	15
Fluorene			32.0	33.7		ug/L		105	66 - 120	4	15
Hexachlorobenzene			32.0	35.3		ug/L		110	61 - 120	3	15
Benzoic acid			256	ND	U	ug/L		30	10 - 120	11	50
Hexachlorobutadiene			32.0	33.6		ug/L		105	35 - 120	8	44
Hexachlorocyclopentadiene			32.0	25.6	J	ug/L		80	31 - 120	12	49
Hexachloroethane			32.0	27.3		ug/L		85	43 - 120	8	46
Indeno(1,2,3-cd)pyrene			32.0	33.3		ug/L		104	69 - 146	2	15
Isophorone			32.0	27.9		ug/L		87	55 - 120	3	17
Naphthalene			32.0	29.0		ug/L		91	57 - 120	4	29
Nitrobenzene			32.0	28.9		ug/L		90	53 - 123	4	24
N-Nitrosodi-n-propylamine			32.0	25.2		ug/L		79	32 - 140	3	31
N-Nitrosodiphenylamine			32.0	29.9		ug/L		93	61 - 120	1	15
Pentachlorophenol			64.0	48.9	J	ug/L		76	29 - 136	4	37
Phenanthrene			32.0	33.7		ug/L		105	68 - 120	2	15
Phenol			32.0	17.4		ug/L		55	17 - 120	6	34
Pyrene			32.0	33.4		ug/L		104	70 - 125	2	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*46 - 120*
2-Fluorobiphenyl	*97*		*48 - 120*
p-Terphenyl-d14	*107*		*59 - 136*
Phenol-d5	*52*		*22 - 120*
2-Fluorophenol	*70*		*35 - 120*
2,4,6-Tribromophenol	*111*		*41 - 120*

Lab Sample ID: MB 480-477905/1-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477905

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
1,2-Dichlorobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
1,3-Dichlorobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
1,4-Dichlorobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,2'-Oxybis(1-chloropropane)	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4,5-Trichlorophenol	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,4-Dinitrotoluene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2,6-Dinitrotoluene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2-Chloronaphthalene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2-Methylnaphthalene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2-Methylphenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
2-Nitroaniline	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477905/1-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477905

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
3,3'-Dichlorobenzidine	ND	U	20		ug/L		06/14/19 16:01	06/18/19 10:28	1
3-Nitroaniline	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Bromophenyl phenyl ether	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Chloroaniline	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Chlorophenyl phenyl ether	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Methylphenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Nitroaniline	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
Acenaphthene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Acenaphthylene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Anthracene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzo(a)anthracene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzo(a)pyrene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzo(b)fluoranthene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzo(ghi)perylene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzo(k)fluoranthene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzyl alcohol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Bis(2-chloroethoxy)methane	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Bis(2-chloroethyl)ether	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Bis(2-ethylhexyl) phthalate	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
Butyl benzyl phthalate	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Chrysene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Dibenzo(a,h)anthracene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Dibenzofuran	ND	U	5.0		ug/L		06/14/19 16:01	06/18/19 10:28	1
Diethyl phthalate	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Dimethyl phthalate	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Di-n-butyl phthalate	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Di-n-octyl phthalate	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Fluoranthene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Fluorene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Hexachlorobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Benzoic acid	ND	U	150		ug/L		06/14/19 16:01	06/18/19 10:28	1
Hexachlorobutadiene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Hexachlorocyclopentadiene	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
Hexachloroethane	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Indeno(1,2,3-cd)pyrene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Isophorone	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Naphthalene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Nitrobenzene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
N-Nitrosodi-n-propylamine	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
N-Nitrosodiphenylamine	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 16:01	06/18/19 10:28	1
Phenanthrene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Phenol	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1
Pyrene	ND	U	10		ug/L		06/14/19 16:01	06/18/19 10:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477905/1-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477905

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	06/14/19 16:01	06/18/19 10:28	1
2-Fluorobiphenyl	97		48 - 120	06/14/19 16:01	06/18/19 10:28	1
p-Terphenyl-d14	104		59 - 136	06/14/19 16:01	06/18/19 10:28	1
Phenol-d5	50		22 - 120	06/14/19 16:01	06/18/19 10:28	1
2-Fluorophenol	68		35 - 120	06/14/19 16:01	06/18/19 10:28	1
2,4,6-Tribromophenol	92		41 - 120	06/14/19 16:01	06/18/19 10:28	1

Lab Sample ID: LCS 480-477905/2-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	32.0	26.8		ug/L		84	40 - 120
1,2-Dichlorobenzene	32.0	26.3		ug/L		82	49 - 120
1,3-Dichlorobenzene	32.0	25.7		ug/L		80	50 - 120
1,4-Dichlorobenzene	32.0	26.2		ug/L		82	51 - 120
2,2'-Oxybis(1-chloropropane)	32.0	26.0		ug/L		81	21 - 136
2,4,5-Trichlorophenol	32.0	34.2	J	ug/L		107	65 - 126
2,4,6-Trichlorophenol	32.0	34.6		ug/L		108	64 - 120
2,4-Dichlorophenol	32.0	31.3		ug/L		98	63 - 120
2,4-Dimethylphenol	32.0	29.6		ug/L		93	47 - 120
2,4-Dinitrophenol	64.0	71.7		ug/L		112	31 - 137
2,4-Dinitrotoluene	32.0	34.2		ug/L		107	69 - 120
2,6-Dinitrotoluene	32.0	34.7		ug/L		108	68 - 120
2-Chloronaphthalene	32.0	29.8		ug/L		93	58 - 120
2-Chlorophenol	32.0	27.2		ug/L		85	48 - 120
2-Methylnaphthalene	32.0	29.2		ug/L		91	59 - 120
2-Methylphenol	32.0	25.7		ug/L		80	39 - 120
2-Nitroaniline	32.0	33.3	J	ug/L		104	54 - 127
2-Nitrophenol	32.0	29.8		ug/L		93	52 - 125
3,3'-Dichlorobenzidine	64.0	76.5		ug/L		120	49 - 135
3-Nitroaniline	32.0	32.3	J	ug/L		101	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.0		ug/L		119	46 - 136
4-Bromophenyl phenyl ether	32.0	31.2		ug/L		98	65 - 120
4-Chloro-3-methylphenol	32.0	31.0		ug/L		97	61 - 123
4-Chloroaniline	32.0	29.4		ug/L		92	30 - 120
4-Chlorophenyl phenyl ether	32.0	31.9		ug/L		100	62 - 120
4-Methylphenol	32.0	27.0		ug/L		84	29 - 131
4-Nitroaniline	32.0	33.0	J	ug/L		103	65 - 120
4-Nitrophenol	64.0	60.7		ug/L		95	45 - 120
Acenaphthene	32.0	31.4		ug/L		98	60 - 120
Acenaphthylene	32.0	32.0		ug/L		100	63 - 120
Anthracene	32.0	32.1		ug/L		100	67 - 120
Benzo(a)anthracene	32.0	32.0		ug/L		100	70 - 121
Benzo(a)pyrene	32.0	30.3		ug/L		95	60 - 123
Benzo(b)fluoranthene	32.0	32.7		ug/L		102	66 - 126
Benzo(ghi)perylene	32.0	33.7		ug/L		105	66 - 150
Benzo(k)fluoranthene	32.0	34.3		ug/L		107	65 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477905/2-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	32.0	25.4		ug/L		79	41 - 126
Bis(2-chloroethoxy)methane	32.0	29.0		ug/L		91	50 - 128
Bis(2-chloroethyl)ether	32.0	25.7		ug/L		80	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.9	J	ug/L		109	63 - 139
Butyl benzyl phthalate	32.0	34.6		ug/L		108	70 - 129
Chrysene	32.0	34.1		ug/L		107	69 - 120
Dibenzo(a,h)anthracene	32.0	33.5		ug/L		105	65 - 135
Dibenzofuran	32.0	31.3		ug/L		98	66 - 120
Diethyl phthalate	32.0	34.3		ug/L		107	59 - 127
Dimethyl phthalate	32.0	33.8		ug/L		106	68 - 120
Di-n-butyl phthalate	32.0	33.9		ug/L		106	69 - 131
Di-n-octyl phthalate	32.0	34.3		ug/L		107	63 - 140
Fluoranthene	32.0	33.6		ug/L		105	69 - 126
Fluorene	32.0	33.0		ug/L		103	66 - 120
Hexachlorobenzene	32.0	31.6		ug/L		99	61 - 120
Benzoic acid	256	136	J	ug/L		53	10 - 120
Hexachlorobutadiene	32.0	26.4		ug/L		82	35 - 120
Hexachlorocyclopentadiene	32.0	24.7	J	ug/L		77	31 - 120
Hexachloroethane	32.0	25.2		ug/L		79	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	33.4		ug/L		104	69 - 146
Isophorone	32.0	30.5		ug/L		95	55 - 120
Naphthalene	32.0	29.0		ug/L		90	57 - 120
Nitrobenzene	32.0	29.8		ug/L		93	53 - 123
N-Nitrosodi-n-propylamine	32.0	29.7		ug/L		93	32 - 140
N-Nitrosodiphenylamine	32.0	31.3		ug/L		98	61 - 120
Pentachlorophenol	64.0	65.8		ug/L		103	29 - 136
Phenanthrene	32.0	33.6		ug/L		105	68 - 120
Phenol	32.0	18.0		ug/L		56	17 - 120
Pyrene	32.0	32.8		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*46 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
p-Terphenyl-d14	*98*		*59 - 136*
Phenol-d5	*53*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*105*		*41 - 120*

Lab Sample ID: LCSD 480-477905/3-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	28.1		ug/L		88	40 - 120	5	30
1,2-Dichlorobenzene	32.0	27.1		ug/L		85	49 - 120	3	29
1,3-Dichlorobenzene	32.0	26.4		ug/L		83	50 - 120	3	37
1,4-Dichlorobenzene	32.0	27.2		ug/L		85	51 - 120	4	36
2,2'-Oxybis(1-chloropropane)	32.0	27.0		ug/L		84	21 - 136	4	24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-477905/3-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	32.0	35.4	J	ug/L		111	65 - 126	3	18
2,4,6-Trichlorophenol	32.0	36.0		ug/L		112	64 - 120	4	19
2,4-Dichlorophenol	32.0	33.0		ug/L		103	63 - 120	5	19
2,4-Dimethylphenol	32.0	31.9		ug/L		100	47 - 120	7	42
2,4-Dinitrophenol	64.0	71.6		ug/L		112	31 - 137	0	22
2,4-Dinitrotoluene	32.0	34.8		ug/L		109	69 - 120	2	20
2,6-Dinitrotoluene	32.0	35.2		ug/L		110	68 - 120	2	15
2-Chloronaphthalene	32.0	30.9		ug/L		97	58 - 120	4	21
2-Chlorophenol	32.0	28.4		ug/L		89	48 - 120	4	25
2-Methylnaphthalene	32.0	31.1		ug/L		97	59 - 120	6	21
2-Methylphenol	32.0	27.7		ug/L		87	39 - 120	7	27
2-Nitroaniline	32.0	35.2	J	ug/L		110	54 - 127	5	15
2-Nitrophenol	32.0	32.1		ug/L		100	52 - 125	8	18
3,3'-Dichlorobenzidine	64.0	77.7		ug/L		121	49 - 135	1	25
3-Nitroaniline	32.0	35.8	J	ug/L		112	51 - 120	10	19
4,6-Dinitro-2-methylphenol	64.0	78.4		ug/L		122	46 - 136	3	15
4-Bromophenyl phenyl ether	32.0	32.3		ug/L		101	65 - 120	3	15
4-Chloro-3-methylphenol	32.0	32.3		ug/L		101	61 - 123	4	27
4-Chloroaniline	32.0	32.7		ug/L		102	30 - 120	11	22
4-Chlorophenyl phenyl ether	32.0	32.6		ug/L		102	62 - 120	2	16
4-Methylphenol	32.0	28.1		ug/L		88	29 - 131	4	24
4-Nitroaniline	32.0	34.9	J	ug/L		109	65 - 120	6	24
4-Nitrophenol	64.0	62.1		ug/L		97	45 - 120	2	48
Acenaphthene	32.0	32.3		ug/L		101	60 - 120	3	24
Acenaphthylene	32.0	33.2		ug/L		104	63 - 120	4	18
Anthracene	32.0	33.1		ug/L		103	67 - 120	3	15
Benzo(a)anthracene	32.0	32.7		ug/L		102	70 - 121	2	15
Benzo(a)pyrene	32.0	30.3		ug/L		95	60 - 123	0	15
Benzo(b)fluoranthene	32.0	32.3		ug/L		101	66 - 126	1	15
Benzo(ghi)perylene	32.0	34.1		ug/L		106	66 - 150	1	15
Benzo(k)fluoranthene	32.0	32.4		ug/L		101	65 - 124	6	22
Benzyl alcohol	32.0	26.1		ug/L		82	41 - 126	3	34
Bis(2-chloroethoxy)methane	32.0	30.2		ug/L		94	50 - 128	4	17
Bis(2-chloroethyl)ether	32.0	27.3		ug/L		85	44 - 120	6	21
Bis(2-ethylhexyl) phthalate	32.0	35.9	J	ug/L		112	63 - 139	3	15
Butyl benzyl phthalate	32.0	34.3		ug/L		107	70 - 129	1	16
Chrysene	32.0	34.5		ug/L		108	69 - 120	1	15
Dibenzo(a,h)anthracene	32.0	34.4		ug/L		107	65 - 135	3	15
Dibenzofuran	32.0	31.9		ug/L		100	66 - 120	2	15
Diethyl phthalate	32.0	34.4		ug/L		107	59 - 127	0	15
Dimethyl phthalate	32.0	35.1		ug/L		110	68 - 120	4	15
Di-n-butyl phthalate	32.0	34.2		ug/L		107	69 - 131	1	15
Di-n-octyl phthalate	32.0	34.6		ug/L		108	63 - 140	1	16
Fluoranthene	32.0	34.2		ug/L		107	69 - 126	2	15
Fluorene	32.0	33.5		ug/L		105	66 - 120	2	15
Hexachlorobenzene	32.0	33.0		ug/L		103	61 - 120	4	15
Benzoic acid	256	ND	U *	ug/L		22	10 - 120	82	50
Hexachlorobutadiene	32.0	28.2		ug/L		88	35 - 120	7	44
Hexachlorocyclopentadiene	32.0	26.4	J	ug/L		83	31 - 120	7	49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-477905/3-A
Matrix: Water
Analysis Batch: 478204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477905

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane			32.0	26.3		ug/L		82	43 - 120	4	46
Indeno(1,2,3-cd)pyrene			32.0	33.9		ug/L		106	69 - 146	1	15
Isophorone			32.0	31.8		ug/L		99	55 - 120	4	17
Naphthalene			32.0	30.8		ug/L		96	57 - 120	6	29
Nitrobenzene			32.0	31.1		ug/L		97	53 - 123	4	24
N-Nitrosodi-n-propylamine			32.0	31.1		ug/L		97	32 - 140	5	31
N-Nitrosodiphenylamine			32.0	31.8		ug/L		99	61 - 120	1	15
Pentachlorophenol			64.0	66.7		ug/L		104	29 - 136	1	37
Phenanthrene			32.0	34.1		ug/L		107	68 - 120	2	15
Phenol			32.0	19.2		ug/L		60	17 - 120	6	34
Pyrene			32.0	34.0		ug/L		106	70 - 125	4	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*46 - 120*
2-Fluorobiphenyl	*98*		*48 - 120*
p-Terphenyl-d14	*99*		*59 - 136*
Phenol-d5	*56*		*22 - 120*
2-Fluorophenol	*70*		*35 - 120*
2,4,6-Tribromophenol	*106*		*41 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-477503/1-A
Matrix: Water
Analysis Batch: 478546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477503

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/13/19 07:42	06/18/19 20:00	1
Arsenic	ND	U	0.0090		mg/L		06/13/19 07:42	06/18/19 20:00	1
Barium	ND	U	0.0050		mg/L		06/13/19 07:42	06/18/19 20:00	1
Calcium	ND	U	0.15		mg/L		06/13/19 07:42	06/18/19 20:00	1
Chromium	ND	U	0.010		mg/L		06/13/19 07:42	06/18/19 20:00	1
Cobalt	ND	U	0.0040		mg/L		06/13/19 07:42	06/18/19 20:00	1
Copper	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 20:00	1
Iron	ND	U	0.030		mg/L		06/13/19 07:42	06/18/19 20:00	1
Lead	ND	U	0.0050		mg/L		06/13/19 07:42	06/18/19 20:00	1
Magnesium	ND	U	0.24		mg/L		06/13/19 07:42	06/18/19 20:00	1
Manganese	ND	U	0.010		mg/L		06/13/19 07:42	06/18/19 20:00	1
Nickel	ND	U	0.040		mg/L		06/13/19 07:42	06/18/19 20:00	1
Potassium	ND	U	1.0		mg/L		06/13/19 07:42	06/18/19 20:00	1
Sodium	ND	U	0.40		mg/L		06/13/19 07:42	06/18/19 20:00	1
Vanadium	ND	U	0.025		mg/L		06/13/19 07:42	06/18/19 20:00	1
Zinc	ND	U	0.020		mg/L		06/13/19 07:42	06/18/19 20:00	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-477503/2-A
Matrix: Water
Analysis Batch: 478546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.74		mg/L		97	80 - 120
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.205		mg/L		103	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Cobalt	0.200	0.192		mg/L		96	80 - 120
Copper	0.200	0.195		mg/L		98	80 - 120
Iron	10.0	9.98		mg/L		100	80 - 120
Lead	0.200	0.195		mg/L		98	80 - 120
Magnesium	10.0	9.85		mg/L		99	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120
Nickel	0.200	0.200		mg/L		100	80 - 120
Potassium	10.0	9.81		mg/L		98	80 - 120
Sodium	10.0	9.59		mg/L		96	80 - 120
Vanadium	0.200	0.202		mg/L		101	80 - 120
Zinc	0.200	0.203		mg/L		101	80 - 120

Lab Sample ID: MB 480-477677/1-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477677

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080	mg/L		06/14/19 07:45	06/22/19 21:31	1
Arsenic	ND	U	0.0090	mg/L		06/14/19 07:45	06/22/19 21:31	1
Barium	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 21:31	1
Calcium	ND	U	0.15	mg/L		06/14/19 07:45	06/22/19 21:31	1
Chromium	ND	U	0.010	mg/L		06/14/19 07:45	06/22/19 21:31	1
Cobalt	ND	U	0.0040	mg/L		06/14/19 07:45	06/22/19 21:31	1
Copper	ND	U	0.025	mg/L		06/14/19 07:45	06/22/19 21:31	1
Iron	ND	U	0.030	mg/L		06/14/19 07:45	06/22/19 21:31	1
Lead	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 21:31	1
Magnesium	ND	U	0.24	mg/L		06/14/19 07:45	06/22/19 21:31	1
Manganese	ND	U	0.010	mg/L		06/14/19 07:45	06/22/19 21:31	1
Nickel	ND	U	0.040	mg/L		06/14/19 07:45	06/22/19 21:31	1
Potassium	ND	U	1.0	mg/L		06/14/19 07:45	06/22/19 21:31	1
Sodium	ND	U	0.40	mg/L		06/14/19 07:45	06/22/19 21:31	1
Vanadium	ND	U	0.025	mg/L		06/14/19 07:45	06/22/19 21:31	1
Zinc	ND	U	0.020	mg/L		06/14/19 07:45	06/22/19 21:31	1

Lab Sample ID: LCS 480-477677/2-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.67		mg/L		97	80 - 120
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.194		mg/L		97	80 - 120
Calcium	10.0	9.60		mg/L		96	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-477677/2-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.189		mg/L		94	80 - 120
Iron	10.0	9.50		mg/L		95	80 - 120
Lead	0.200	0.189		mg/L		95	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.200	0.193		mg/L		96	80 - 120
Nickel	0.200	0.190		mg/L		95	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120
Sodium	10.0	9.17		mg/L		92	80 - 120
Vanadium	0.200	0.192		mg/L		96	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-477623/1-A
Matrix: Water
Analysis Batch: 477700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477623

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/13/19 11:33	06/13/19 15:25	1

Lab Sample ID: LCS 480-477623/2-A
Matrix: Water
Analysis Batch: 477700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00683		mg/L		102	80 - 120

Lab Sample ID: MB 480-477814/1-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477814

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/14/19 11:20	06/14/19 14:31	1

Lab Sample ID: LCS 480-477814/2-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00713		mg/L		107	80 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-479427/100
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/24/19 18:39	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-479427/80
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 16:59	1

Lab Sample ID: MB 480-479427/89
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 18:35	1

Lab Sample ID: LCS 480-479427/101
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	54.0		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-479427/81
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.9		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-479427/90
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	54.9		mg/L		110	90 - 110		

Lab Sample ID: MB 480-479741/12
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 10:44	1

Lab Sample ID: MB 480-479741/24
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 10:55	1

Lab Sample ID: MB 480-479741/39
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 11:07	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-479741/13
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: LCS 480-479741/25
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	46.1		mg/L		92	90 - 110

Lab Sample ID: LCS 480-479741/40
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	46.9		mg/L		94	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-480491/1-A
Matrix: Water
Analysis Batch: 481101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480491

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L		07/02/19 07:00	07/08/19 09:27	1

Lab Sample ID: LCS 480-480491/2-A
Matrix: Water
Analysis Batch: 481101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: MB 480-481286/1-A
Matrix: Water
Analysis Batch: 481345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481286

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L		07/09/19 10:30	07/09/19 14:08	1

Lab Sample ID: LCS 480-481286/2-A
Matrix: Water
Analysis Batch: 481345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.928		mg/L		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-479198/3
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/23/19 11:14	1

Lab Sample ID: MB 480-479198/51
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/23/19 11:14	1

Lab Sample ID: MB 480-479198/75
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/23/19 11:14	1

Lab Sample ID: LCS 480-479198/4
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	24.3		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-479198/52
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-479198/76
Matrix: Water
Analysis Batch: 479198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: MB 480-479499/3
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/25/19 11:04	1

Lab Sample ID: LCS 480-479499/4
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.7		mg/L		107	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-481256/36
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 18:01	1

Lab Sample ID: MB 480-481256/68
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 18:24	1

Lab Sample ID: LCS 480-481256/35
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.8		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-481256/67
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.8		mg/L		96	90 - 110		

Lab Sample ID: 480-154771-9 MS
Matrix: Leachate
Analysis Batch: 481256

Client Sample ID: 123LC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	ND	U *	mg/L		1	60 - 128		

Lab Sample ID: 480-154771-9 MSD
Matrix: Leachate
Analysis Batch: 481256

Client Sample ID: 123LC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		1	60 - 128	0	20

Lab Sample ID: MB 480-481426/32
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 14:29	1

Lab Sample ID: MB 480-481426/63
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:04	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-481426/31
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.9		mg/L		100	90 - 110

Lab Sample ID: LCS 480-481426/62
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.7		mg/L		99	90 - 110

Method: 9251 - Chloride

Lab Sample ID: MB 480-479428/102
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 18:25	1

Lab Sample ID: MB 480-479428/59
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 16:26	1

Lab Sample ID: MB 480-479428/88
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 16:48	1

Lab Sample ID: LCS 480-479428/103
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110

Lab Sample ID: LCS 480-479428/60
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.1		mg/L		109	90 - 110

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-479428/89
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: MB 480-481390/49
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 14:13	1

Lab Sample ID: MB 480-481390/64
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 14:28	1

Lab Sample ID: MB 480-481390/86
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 14:58	1

Lab Sample ID: MB 480-481390/97
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 15:34	1

Lab Sample ID: LCS 480-481390/50
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.1		mg/L		100	90 - 110

Lab Sample ID: LCS 480-481390/65
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110

Lab Sample ID: LCS 480-481390/85
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.6		mg/L		98	90 - 110

Method: 9251 - Chloride

Lab Sample ID: LCS 480-481390/98
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.4		mg/L		102	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-478080/1
Matrix: Water
Analysis Batch: 478080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00		5.0	mg/L			06/17/19 09:42	1

Lab Sample ID: LCS 480-478080/2
Matrix: Water
Analysis Batch: 478080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	478		mg/L		96	85 - 115

Lab Sample ID: MB 480-478135/1
Matrix: Water
Analysis Batch: 478135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			06/17/19 12:38	1

Lab Sample ID: LCS 480-478135/2
Matrix: Water
Analysis Batch: 478135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	483		mg/L		97	85 - 115

Lab Sample ID: MB 480-478270/1
Matrix: Water
Analysis Batch: 478270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			06/18/19 08:12	1

Lab Sample ID: LCS 480-478270/2
Matrix: Water
Analysis Batch: 478270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	499		mg/L		100	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-477831/1
Matrix: Water
Analysis Batch: 477831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/14/19 11:02	1

Lab Sample ID: LCS 480-477831/2
Matrix: Water
Analysis Batch: 477831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			263	257		mg/L		98	88 - 110		

Lab Sample ID: MB 480-478280/1
Matrix: Water
Analysis Batch: 478280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/18/19 08:45	1

Lab Sample ID: LCS 480-478280/2
Matrix: Water
Analysis Batch: 478280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			270	252		mg/L		93	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481026/4
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/05/19 20:17	1

Lab Sample ID: LCS 480-481026/5
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.4		mg/L		97	90 - 110		

Lab Sample ID: MB 480-481551/4
Matrix: Water
Analysis Batch: 481551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/09/19 18:28	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-481551/5
Matrix: Water
Analysis Batch: 481551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.0		mg/L		97	90 - 110

GC/MS VOA

Analysis Batch: 477516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	8260C	
480-154771-8	11ABCLC	Total/NA	Leachate	8260C	
480-154771-9	123LC	Total/NA	Leachate	8260C	
480-154771-10	7LC	Total/NA	Leachate	8260C	
480-154771-11	9ABCLC	Total/NA	Leachate	8260C	
480-154771-12	TB	Total/NA	WQ	8260C	
MB 480-477516/7	Method Blank	Total/NA	Water	8260C	
LCS 480-477516/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 477714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	8260C	
480-154840-2	TB	Total/NA	WQ	8260C	
MB 480-477714/7	Method Blank	Total/NA	Water	8260C	
LCS 480-477714/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 477465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	3510C	
480-154771-8	11ABCLC	Total/NA	Leachate	3510C	
480-154771-9	123LC	Total/NA	Leachate	3510C	
480-154771-10	7LC	Total/NA	Leachate	3510C	
480-154771-11	9ABCLC	Total/NA	Leachate	3510C	
MB 480-477465/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-477465/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-477465/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 477905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	3510C	
MB 480-477905/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-477905/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-477905/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 478204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	8270D	477905
MB 480-477905/1-A	Method Blank	Total/NA	Water	8270D	477905
LCS 480-477905/2-A	Lab Control Sample	Total/NA	Water	8270D	477905
LCSD 480-477905/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	477905

Analysis Batch: 478399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	8270D	477465
480-154771-8	11ABCLC	Total/NA	Leachate	8270D	477465
MB 480-477465/1-A	Method Blank	Total/NA	Water	8270D	477465
LCS 480-477465/2-A	Lab Control Sample	Total/NA	Water	8270D	477465
LCSD 480-477465/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	477465

GC/MS Semi VOA

Analysis Batch: 478824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-9	123LC	Total/NA	Leachate	8270D	477465
480-154771-10	7LC	Total/NA	Leachate	8270D	477465
480-154771-11	9ABCLC	Total/NA	Leachate	8270D	477465
MB 480-477465/1-A	Method Blank	Total/NA	Water	8270D	477465
LCS 480-477465/2-A	Lab Control Sample	Total/NA	Water	8270D	477465
LCSD 480-477465/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	477465

Metals

Prep Batch: 477503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	3005A	
480-154771-8	11ABCLC	Total/NA	Leachate	3005A	
480-154771-9	123LC	Total/NA	Leachate	3005A	
480-154771-10	7LC	Total/NA	Leachate	3005A	
480-154771-11	9ABCLC	Total/NA	Leachate	3005A	
MB 480-477503/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477503/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 477623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	7470A	
480-154771-8	11ABCLC	Total/NA	Leachate	7470A	
480-154771-9	123LC	Total/NA	Leachate	7470A	
480-154771-10	7LC	Total/NA	Leachate	7470A	
480-154771-11	9ABCLC	Total/NA	Leachate	7470A	
MB 480-477623/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-477623/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 477677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	3005A	
MB 480-477677/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 477700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	7470A	477623
480-154771-8	11ABCLC	Total/NA	Leachate	7470A	477623
480-154771-9	123LC	Total/NA	Leachate	7470A	477623
480-154771-10	7LC	Total/NA	Leachate	7470A	477623
480-154771-11	9ABCLC	Total/NA	Leachate	7470A	477623
MB 480-477623/1-A	Method Blank	Total/NA	Water	7470A	477623
LCS 480-477623/2-A	Lab Control Sample	Total/NA	Water	7470A	477623

Prep Batch: 477814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	7470A	
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Metals

Analysis Batch: 477900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	7470A	477814
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	477814
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	477814

Analysis Batch: 478546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	6010C	477503
480-154771-8	11ABCLC	Total/NA	Leachate	6010C	477503
480-154771-9	123LC	Total/NA	Leachate	6010C	477503
480-154771-10	7LC	Total/NA	Leachate	6010C	477503
480-154771-11	9ABCLC	Total/NA	Leachate	6010C	477503
MB 480-477503/1-A	Method Blank	Total/NA	Water	6010C	477503
LCS 480-477503/2-A	Lab Control Sample	Total/NA	Water	6010C	477503

Analysis Batch: 478761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	6010C	477503
480-154771-8	11ABCLC	Total/NA	Leachate	6010C	477503
480-154771-9	123LC	Total/NA	Leachate	6010C	477503
480-154771-10	7LC	Total/NA	Leachate	6010C	477503
480-154771-11	9ABCLC	Total/NA	Leachate	6010C	477503

Analysis Batch: 479249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	6010C	477677
MB 480-477677/1-A	Method Blank	Total/NA	Water	6010C	477677
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	6010C	477677

Analysis Batch: 479425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	6010C	477677

General Chemistry

Analysis Batch: 477527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-8	11ABCLC	Total/NA	Leachate	353.2	
480-154771-9	123LC	Total/NA	Leachate	353.2	
480-154771-11	9ABCLC	Total/NA	Leachate	353.2	

Analysis Batch: 477528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	353.2	
480-154771-10	7LC	Total/NA	Leachate	353.2	

Analysis Batch: 477727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	353.2	

General Chemistry

Analysis Batch: 477831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	SM 2540D	
480-154771-8	11ABCLC	Total/NA	Leachate	SM 2540D	
480-154771-9	123LC	Total/NA	Leachate	SM 2540D	
480-154771-10	7LC	Total/NA	Leachate	SM 2540D	
480-154771-11	9ABCLC	Total/NA	Leachate	SM 2540D	
MB 480-477831/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-477831/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 478080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	SM 2540C	
480-154771-8	11ABCLC	Total/NA	Leachate	SM 2540C	
MB 480-478080/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478080/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-9	123LC	Total/NA	Leachate	SM 2540C	
480-154771-10	7LC	Total/NA	Leachate	SM 2540C	
480-154771-11	9ABCLC	Total/NA	Leachate	SM 2540C	
MB 480-478135/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478135/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	SM 2540C	
MB 480-478270/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478270/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	SM 2540D	
MB 480-478280/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478280/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 479198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	410.4	
480-154771-8	11ABCLC	Total/NA	Leachate	410.4	
480-154771-9	123LC	Total/NA	Leachate	410.4	
480-154771-10	7LC	Total/NA	Leachate	410.4	
480-154771-11	9ABCLC	Total/NA	Leachate	410.4	
MB 480-479198/3	Method Blank	Total/NA	Water	410.4	
MB 480-479198/51	Method Blank	Total/NA	Water	410.4	
MB 480-479198/75	Method Blank	Total/NA	Water	410.4	
LCS 480-479198/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-479198/52	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-479198/76	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry

Analysis Batch: 479427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	310.2	
480-154771-8	11ABCLC	Total/NA	Leachate	310.2	
480-154771-9	123LC	Total/NA	Leachate	310.2	
480-154771-10	7LC	Total/NA	Leachate	310.2	
480-154771-11	9ABCLC	Total/NA	Leachate	310.2	
MB 480-479427/100	Method Blank	Total/NA	Water	310.2	
MB 480-479427/80	Method Blank	Total/NA	Water	310.2	
MB 480-479427/89	Method Blank	Total/NA	Water	310.2	
LCS 480-479427/101	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479427/81	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479427/90	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-8	11ABCLC	Total/NA	Leachate	9251	
480-154771-9	123LC	Total/NA	Leachate	9251	
480-154771-10	7LC	Total/NA	Leachate	9251	
480-154771-11	9ABCLC	Total/NA	Leachate	9251	
MB 480-479428/102	Method Blank	Total/NA	Water	9251	
MB 480-479428/59	Method Blank	Total/NA	Water	9251	
MB 480-479428/88	Method Blank	Total/NA	Water	9251	
LCS 480-479428/103	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479428/60	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479428/89	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 479499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	410.4	
MB 480-479499/3	Method Blank	Total/NA	Water	410.4	
LCS 480-479499/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 479741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	310.2	
MB 480-479741/12	Method Blank	Total/NA	Water	310.2	
MB 480-479741/24	Method Blank	Total/NA	Water	310.2	
MB 480-479741/39	Method Blank	Total/NA	Water	310.2	
LCS 480-479741/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/25	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/40	Lab Control Sample	Total/NA	Water	310.2	

Prep Batch: 480491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	Distill/Ammonia	
480-154771-8	11ABCLC	Total/NA	Leachate	Distill/Ammonia	
480-154771-9	123LC	Total/NA	Leachate	Distill/Ammonia	
480-154771-10	7LC	Total/NA	Leachate	Distill/Ammonia	
480-154771-11	9ABCLC	Total/NA	Leachate	Distill/Ammonia	
MB 480-480491/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-480491/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

General Chemistry

Analysis Batch: 480635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	SM 5210B	
480-154771-8	11ABCLC	Total/NA	Leachate	SM 5210B	
480-154771-9	123LC	Total/NA	Leachate	SM 5210B	
480-154771-10	7LC	Total/NA	Leachate	SM 5210B	
480-154771-11	9ABCLC	Total/NA	Leachate	SM 5210B	

Analysis Batch: 481026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	SM 5310C	
480-154771-8	11ABCLC	Total/NA	Leachate	SM 5310C	
480-154771-9	123LC	Total/NA	Leachate	SM 5310C	
480-154771-10	7LC	Total/NA	Leachate	SM 5310C	
480-154771-11	9ABCLC	Total/NA	Leachate	SM 5310C	
MB 480-481026/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481026/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 481101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	350.1	480491
480-154771-8	11ABCLC	Total/NA	Leachate	350.1	480491
480-154771-9	123LC	Total/NA	Leachate	350.1	480491
480-154771-10	7LC	Total/NA	Leachate	350.1	480491
MB 480-480491/1-A	Method Blank	Total/NA	Water	350.1	480491
LCS 480-480491/2-A	Lab Control Sample	Total/NA	Water	350.1	480491

Analysis Batch: 481107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-11	9ABCLC	Total/NA	Leachate	350.1	480491

Analysis Batch: 481256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-8	11ABCLC	Total/NA	Leachate	9038	
480-154771-9	123LC	Total/NA	Leachate	9038	
480-154771-10	7LC	Total/NA	Leachate	9038	
480-154771-11	9ABCLC	Total/NA	Leachate	9038	
480-154840-1	12ABLC	Total/NA	Leachate	9038	
MB 480-481256/36	Method Blank	Total/NA	Water	9038	
MB 480-481256/68	Method Blank	Total/NA	Water	9038	
LCS 480-481256/35	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481256/67	Lab Control Sample	Total/NA	Water	9038	
480-154771-9 MS	123LC	Total/NA	Leachate	9038	
480-154771-9 MSD	123LC	Total/NA	Leachate	9038	

Prep Batch: 481286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	Distill/Ammonia	
MB 480-481286/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481286/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

General Chemistry

Analysis Batch: 481345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	350.1	481286
MB 480-481286/1-A	Method Blank	Total/NA	Water	350.1	481286
LCS 480-481286/2-A	Lab Control Sample	Total/NA	Water	350.1	481286

Analysis Batch: 481390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	9251	
480-154840-1	12ABLC	Total/NA	Leachate	9251	
MB 480-481390/49	Method Blank	Total/NA	Water	9251	
MB 480-481390/64	Method Blank	Total/NA	Water	9251	
MB 480-481390/86	Method Blank	Total/NA	Water	9251	
MB 480-481390/97	Method Blank	Total/NA	Water	9251	
LCS 480-481390/50	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/65	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/85	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/98	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	9038	
MB 480-481426/32	Method Blank	Total/NA	Water	9038	
MB 480-481426/63	Method Blank	Total/NA	Water	9038	
LCS 480-481426/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/62	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 481551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	SM 5310C	
MB 480-481551/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481551/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 484469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	SM 5210B	

Field Service / Mobile Lab

Analysis Batch: 477678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154840-1	12ABLC	Total/NA	Leachate	Field Sampling	

Analysis Batch: 477853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154771-7	10ABLC	Total/NA	Leachate	Field Sampling	
480-154771-8	11ABCLC	Total/NA	Leachate	Field Sampling	
480-154771-9	123LC	Total/NA	Leachate	Field Sampling	
480-154771-10	7LC	Total/NA	Leachate	Field Sampling	
480-154771-11	9ABCLC	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 10ABLC

Date Collected: 06/11/19 13:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-7

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	477516	06/13/19 01:49	AMM	TAL BUF
Total/NA	Prep	3510C			477465	06/12/19 15:00	ATG	TAL BUF
Total/NA	Analysis	8270D		10	478399	06/19/19 15:40	PJQ	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		10	478761	06/19/19 11:13	AMH	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478546	06/18/19 21:24	AMH	TAL BUF
Total/NA	Prep	7470A			477623	06/13/19 11:33	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477700	06/13/19 15:33	BMB	TAL BUF
Total/NA	Analysis	310.2		45	479427	06/24/19 18:37	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			480491	07/02/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481101	07/08/19 09:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477528	06/12/19 21:34	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479198	06/23/19 11:14	EAG	TAL BUF
Total/NA	Analysis	9038		3	481426	07/09/19 14:37	KEB	TAL BUF
Total/NA	Analysis	9251		400	481390	07/09/19 15:35	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478080	06/17/19 09:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477831	06/14/19 11:02	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480635	06/17/19 07:20	CTB	
Total/NA	Analysis	SM 5310C		2	481026	07/05/19 23:17	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477853	06/11/19 13:00	FLD	TAL BUF

Client Sample ID: 11ABCLC

Date Collected: 06/11/19 13:45
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-8

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	477516	06/13/19 02:14	AMM	TAL BUF
Total/NA	Prep	3510C			477465	06/12/19 15:00	ATG	TAL BUF
Total/NA	Analysis	8270D		5	478399	06/19/19 16:09	PJQ	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		5	478761	06/19/19 11:17	AMH	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478546	06/18/19 21:28	AMH	TAL BUF
Total/NA	Prep	7470A			477623	06/13/19 11:33	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477700	06/13/19 15:34	BMB	TAL BUF
Total/NA	Analysis	310.2		265	479427	06/24/19 17:01	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			480491	07/02/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481101	07/08/19 09:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477527	06/12/19 23:40	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479198	06/23/19 11:14	EAG	TAL BUF
Total/NA	Analysis	9038		30	481256	07/08/19 18:34	KEB	TAL BUF
Total/NA	Analysis	9251		200	479428	06/24/19 16:54	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 11ABCLC

Lab Sample ID: 480-154771-8

Date Collected: 06/11/19 13:45

Matrix: Leachate

Date Received: 06/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	478080	06/17/19 09:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	477831	06/14/19 11:02	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480635	06/17/19 07:24	CTB	
Total/NA	Analysis	SM 5310C		5	481026	07/05/19 23:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477853	06/11/19 13:45	FLD	TAL BUF

Client Sample ID: 123LC

Lab Sample ID: 480-154771-9

Date Collected: 06/11/19 14:00

Matrix: Leachate

Date Received: 06/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	477516	06/13/19 02:38	AMM	TAL BUF
Total/NA	Prep	3510C			477465	06/12/19 15:00	ATG	TAL BUF
Total/NA	Analysis	8270D		5	478824	06/20/19 18:14	PJQ	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		5	478761	06/19/19 11:21	AMH	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478546	06/18/19 21:32	AMH	TAL BUF
Total/NA	Prep	7470A			477623	06/13/19 11:33	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477700	06/13/19 15:35	BMB	TAL BUF
Total/NA	Analysis	310.2		175	479427	06/24/19 18:39	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			480491	07/02/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481101	07/08/19 09:49	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477527	06/12/19 23:23	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479198	06/23/19 11:14	EAG	TAL BUF
Total/NA	Analysis	9038		1	481256	07/08/19 17:47	KEB	TAL BUF
Total/NA	Analysis	9251		150	479428	06/24/19 18:27	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478135	06/17/19 12:38	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477831	06/14/19 11:02	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480635	06/17/19 09:58	CTB	
Total/NA	Analysis	SM 5310C		2	481026	07/05/19 23:48	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477853	06/11/19 14:00	FLD	TAL BUF

Client Sample ID: 7LC

Lab Sample ID: 480-154771-10

Date Collected: 06/11/19 14:30

Matrix: Leachate

Date Received: 06/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	477516	06/13/19 03:01	AMM	TAL BUF
Total/NA	Prep	3510C			477465	06/12/19 15:00	ATG	TAL BUF
Total/NA	Analysis	8270D		20	478824	06/20/19 18:43	PJQ	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		5	478761	06/19/19 11:25	AMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 7LC

Date Collected: 06/11/19 14:30
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-10

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478546	06/18/19 21:36	AMH	TAL BUF
Total/NA	Prep	7470A			477623	06/13/19 11:33	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477700	06/13/19 15:37	BMB	TAL BUF
Total/NA	Analysis	310.2		125	479427	06/24/19 18:39	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			480491	07/02/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481101	07/08/19 09:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477528	06/12/19 21:42	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479198	06/23/19 11:14	EAG	TAL BUF
Total/NA	Analysis	9038		1	481256	07/08/19 18:27	KEB	TAL BUF
Total/NA	Analysis	9251		250	479428	06/24/19 16:54	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478135	06/17/19 12:38	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477831	06/14/19 11:02	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480635	06/17/19 06:58	CTB	
Total/NA	Analysis	SM 5310C		2	481026	07/06/19 00:03	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477853	06/11/19 14:30	FLD	TAL BUF

Client Sample ID: 9ABCLC

Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	477516	06/13/19 03:25	AMM	TAL BUF
Total/NA	Prep	3510C			477465	06/12/19 15:00	ATG	TAL BUF
Total/NA	Analysis	8270D		5	478824	06/20/19 19:11	PJQ	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		5	478761	06/19/19 11:40	AMH	TAL BUF
Total/NA	Prep	3005A			477503	06/13/19 07:42	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478546	06/18/19 21:40	AMH	TAL BUF
Total/NA	Prep	7470A			477623	06/13/19 11:33	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477700	06/13/19 15:40	BMB	TAL BUF
Total/NA	Analysis	310.2		75	479427	06/24/19 18:37	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			480491	07/02/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481107	07/08/19 09:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477527	06/12/19 23:24	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479198	06/23/19 11:14	EAG	TAL BUF
Total/NA	Analysis	9038		1	481256	07/08/19 18:04	KEB	TAL BUF
Total/NA	Analysis	9251		200	479428	06/24/19 18:27	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478135	06/17/19 12:38	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	477831	06/14/19 11:02	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480635	06/17/19 07:15	CTB	
Total/NA	Analysis	SM 5310C		4	481026	07/06/19 00:18	CLA	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Client Sample ID: 9ABCLC
Date Collected: 06/11/19 15:20
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-11
Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	477853	06/11/19 15:20	FLD	TAL BUF

Client Sample ID: TB
Date Collected: 06/11/19 00:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-12
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477516	06/13/19 03:49	AMM	TAL BUF

Client Sample ID: 12ABLC
Date Collected: 06/12/19 16:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-1
Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	477714	06/14/19 04:25	RJF	TAL BUF
Total/NA	Prep	3510C			477905	06/14/19 16:01	ATG	TAL BUF
Total/NA	Analysis	8270D		20	478204	06/18/19 12:20	RJS	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 23:22	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		5	479425	06/25/19 00:52	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:40	BMB	TAL BUF
Total/NA	Analysis	310.2		80	479741	06/26/19 11:15	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481286	07/09/19 10:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481345	07/09/19 14:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477727	06/13/19 21:41	SMH	TAL BUF
Total/NA	Analysis	410.4		5	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		40	481256	07/08/19 18:29	KEB	TAL BUF
Total/NA	Analysis	9251		200	481390	07/09/19 14:58	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478270	06/18/19 08:12	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478280	06/18/19 08:45	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	484469	07/18/19 09:10	CTB	
Total/NA	Analysis	SM 5310C		4	481551	07/09/19 20:56	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477678	06/12/19 16:15	FLD	TAL BUF

Client Sample ID: TB
Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-2
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477714	06/14/19 04:49	RJF	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154771-1
Project/Site: Crossroads ME-Ann Leachate

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Leachate	Sulfate
9251		Leachate	Chloride
Field Sampling		Leachate	Field EH/ORP
Field Sampling		Leachate	Field pH
Field Sampling		Leachate	Oxygen, Dissolved
Field Sampling		Leachate	Specific Conductance
Field Sampling		Leachate	Temperature
Field Sampling		Leachate	Turbidity

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate

Job ID: 480-154771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154771-7	10ABLC	Leachate	06/11/19 13:00	06/12/19 09:00	
480-154771-8	11ABCLC	Leachate	06/11/19 13:45	06/12/19 09:00	
480-154771-9	123LC	Leachate	06/11/19 14:00	06/12/19 09:00	
480-154771-10	7LC	Leachate	06/11/19 14:30	06/12/19 09:00	
480-154771-11	9ABCLC	Leachate	06/11/19 15:20	06/12/19 09:00	
480-154771-12	TB	WQ	06/11/19 00:00	06/12/19 09:00	
480-154840-1	12ABLC	Leachate	06/12/19 16:15	06/13/19 09:00	
480-154840-2	TB	WQ	06/12/19 00:00	06/13/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-154771-1
Project/Site: Crossroads ME-Ann Leachate

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8270D	Benzyl alcohol	Leachate	Total/NA	ug/L	10	20
8270D	Dibenzofuran	Leachate	Total/NA	ug/L	5.0	10
6010C	Aluminum	Leachate	Total/NA	mg/L	0.080	0.20
6010C	Arsenic	Leachate	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Leachate	Total/NA	mg/L	0.15	0.50
6010C	Iron	Leachate	Total/NA	mg/L	0.030	0.05
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Sodium	Leachate	Total/NA	mg/L	0.40	1.0
9251	Chloride	Leachate	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Leachate	Total/NA	mg/L	5.0	10

June 20, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5823
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 12, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer **Date** 06/20/2019

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5823-1
Report Date: 19-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5823

Sample Description	Matrix	Date Sampled	Date Received
7LC	AQ	11-JUN-19 14:30:00	12-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	24. mg/L	16.	1.9	SM 5210B	WG254939	17-JUN-19 06:58:00	SM 5210B	12-JUN-19 941	BR		

Katahdin Analytical Services SM5823 page 0000003 of 0000015

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5823-2
Report Date: 19-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5823

Sample Description	Matrix	Date Sampled	Date Received
9ABCLC	AQ	11-JUN-19 11:15:00	12-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	54. mg/L	34.	4.0	SM 5210B	WG254939	17-JUN-19 07:15:00	SM 5210B	12-JUN-19 955	BR		

Katahdin Analytical Services SM5823 page 0000004 of 0000015

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5823-3
Report Date: 19-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5823

Sample Description	Matrix	Date Sampled	Date Received
10ABLC	AQ	11-JUN-19 14:30:00	12-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	44. mg/L	24.	2.8	SM 5210B	WG254939	17-JUN-19 07:20:00	SM 5210B	12-JUN-19 1000	BR		

Katahdin Analytical Services SM5823 page 0000005 of 0000015

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5823-4
Report Date: 19-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5823

Sample Description	Matrix	Date Sampled	Date Received
11ABCLC	AQ	11-JUN-19 13:45:00	12-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	61. mg/L	34.	4.0	SM 5210B	WG254939	17-JUN-19 07:24:00	SM 5210B	12-JUN-19 1014	BR		

Katahdin Analytical Services SM5823 page 0000006 of 0000015

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5823-5
Report Date: 19-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5823

Sample Description	Matrix	Date Sampled	Date Received
123LC	AQ	11-JUN-19 14:00:00	12-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	46. mg/L	27.	3.1	SM 5210B	WG254940	17-JUN-19 09:58:00	SM 5210B	12-JUN-19 1209	BR		

Katahdin Analytical Services SM5823 page 0000007 of 0000015

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG254939	SM 5210B	17-JUN-19	12-JUN-19	U 1.0 mg/L	2.0 mg/L
MBLANK	WG254940	SM 5210B	17-JUN-19	12-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG254939-2	LCS	WG254939	17-JUN-19	12-JUN-19	mg/L	198	210	104	85-115	
WG254940-2	LCS	WG254940	17-JUN-19	12-JUN-19	mg/L	198	220	112	85-115	

Quality Control Report

Duplicate Sample Summary Report

Total Biochemical Oxygen Demand

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG254940-3	SM5823-5	WG254940	17-JUN-19	mg/L	46.	36.	26*	20

Quality Control Report

Matrix Spike Sample Summary Report

Total Biochemical Oxygen Demand

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG254940-4	MS	SM5823-5	WG254940	17-JUN-19	mg/L	237.6	46.	310	110	75 - 125

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: CROSSROADS	KAS PM: GN	Sampled By: KA	
Project: LEACHATE BODS	KIMS Entry By: JCB	Delivered By: KA	
KAS Work Order#: SM 5823	KIMS Review By: GN	Received By: JAB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/11/19 1850	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): 0.0°C
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman, Nick Adams/			Copies To:

LAB USE ONLY Work Order #: **SM 5823**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	7LC	6/11/2019 1430	AQ	1	1										
	9ABCLC	6/11/2019 1115	AQ	1	1										
	10ABLC	6/11/2019 1430	AQ	1	1										
	11ABCLC	6/11/2019 1345	AQ	1	1										
	123LC	6/11/2019 1400	AQ	1	1										
	45LC	6/11/2019	AQ	0	Site dry, no sample taken										
	ABTD	6/11/2019	AQ	0	Site has been decommissioned										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	6/12/19 0700				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 12, 2019
03:54 PM

Login Number: SM5823

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	6113107001
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	0.0
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5823-1	7LC	11-JUN-19 14:30	12-JUN-19			24-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	13-JUN-19	250mL Plastic		

SM5823-2	9ABCLC	11-JUN-19 11:15	12-JUN-19			24-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	13-JUN-19	250mL Plastic		

SM5823-3	10ABLC	11-JUN-19 14:30	12-JUN-19			24-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	13-JUN-19	250mL Plastic		

SM5823-4	11ABCLC	11-JUN-19 13:45	12-JUN-19			24-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	13-JUN-19	250mL Plastic		

SM5823-5	123LC	11-JUN-19 14:00	12-JUN-19			24-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	13-JUN-19	250mL Plastic		

SM5823-6	45LC	11-JUN-19 00:00	12-JUN-19			24-JUN-19	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Site dry, no sample taken

SM5823-7	ABTD	11-JUN-19 00:00	12-JUN-19			24-JUN-19	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Site has been decommissioned

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 12, 2019
03:54 PM

Login Number: SM5823

Quote/Incoming:

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed

Total Samples: *5* ***Total Analyses:*** *5*

June 21, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5886
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/21/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-1
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8ALC	AQ	12-JUN-19 12:15:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	120 mg/L	57.	6.6	SM 5210B	WG254942	18-JUN-19 07:26:00	SM 5210B	13-JUN-19 956	BR		

Katahdin Analytical Services SM5886 page 0000003 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-2
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8BLC	AQ	12-JUN-19 14:10:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	220 mg/L	100	12.	SM 5210B	WG254942	18-JUN-19 08:28:00	SM 5210B	13-JUN-19 1025	BR		

Katahdin Analytical Services SM5886 page 0000004 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-3
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8CLC	AQ	12-JUN-19 14:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	260 mg/L	170	20.	SM 5210B	WG254942	18-JUN-19 08:41:00	SM 5210B	13-JUN-19 1036	BR		

Katahdin Analytical Services SM5886 page 0000005 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-4
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
12ABLC	AQ	12-JUN-19 13:45:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	120 mg/L	57.	6.6	SM 5210B	WG254942	18-JUN-19 09:10:00	SM 5210B	13-JUN-19 1110	BR		

Katahdin Analytical Services SM5886 page 0000006 of 0000011

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG254942	SM 5210B	18-JUN-19	13-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG254942-2	LCS	WG254942	18-JUN-19	13-JUN-19	mg/L	198	220	109	85-115	

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Crossroads	KAS PM: GN	Sampled By: KA	
Project:	KIMS Entry By: JCB	Delivered By: KA	
KAS Work Order#: SM5886	KIMS Review By:	Received By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/12/19 1920	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): 4.2°C
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9					
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):	Address:		
Sampler (Print/Sign): Katrina Aman, Nick Adams/ KA			Copies To:

LAB USE ONLY Work Order #: **SM 5886**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	8ALC	6/12/2019 1215	AQ	1	1										
	8BLC	6/12/2019 1410	AQ	1	1										
	8CLC	6/12/2019 1430	AQ	1	1										
	12ABLC	6/12/2019 1345	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Katrina Aman KA	6/13/19 0810	JCB			
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 13, 2019
04:10 PM

Login Number: SM5886

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	4.2
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5886-1	8ALC	12-JUN-19 12:15	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-2	8BLC	12-JUN-19 14:10	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-3	8CLC	12-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-4	12ABLC	12-JUN-19 13:45	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Total Samples: *4* ***Total Analyses:*** *4*

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128058-28921.1
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate Collection 4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Appendix I Volatiles	8270D - Semi-volatiles	350.1, 410.4	6010C, 7470A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	S	D	A	N	N	N	N	N	N			X	
TB				Water			2													2	
10ABLC	6/11/19	1300	G	Water	N	N	3	2	1	1	2	0	1	1	X	2	1			15	* BOD SAMPLES
11ABCLC	↓	1345	G	Water	N	N	3	2	1	1	2	0	1	1	X	2	1			15	HAVE BEEN GIVEN
~~123LC~~				Water																	TO KATAHDIN
~~12ABLC~~				Water																	TO RUN.
~~45LC~~				Water																	
~~7LC~~				Water																	
~~8ABCLC~~				Water																	
~~ABTD~~				Water																	

480-154771 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
[signature]	6/11/19 1800	KAS	[signature]	6/12/19 0900	TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.9

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / Aman	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128058-28921.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate Collection 4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Appendix I Volatiles	8270D - Semi-volatiles	350.1, 410.4	6010C, 7470A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	A	N	N	N	N	N	N				
~~TB~~ TB				Water			1														
~~10ABLC~~				Water																	
~~11ABCLC~~				Water																	
123LC	6/11/19	1400	G	Water	N	N	3	2	1	1	2	0	1	1	X	2	1			15	*BOD Samples Have Been Given to Katahdin to RUN.
~~12ABLC~~	↓			Water																	
~~45LC~~				Water																	
7LC		1430	G	Water	N	N	3	2	1	1	2	0	1	1	X	2	1			15	
9ABCLC	6/11/19	1520	G	Water	N	N	3	2	1	1	2	0	1	1	X	2	1			15	
~~ABTD~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 123LC - Composite of 1LC & 2LC - 3LC-dry

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
[signature]	6/11/19 1800	KAS	[signature]	6/12/19 0900	TAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

480-154840 Chain of Custody

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com	
Company: Katahdin Analytical Services			
Address: PO BOX 540 600 Technology Way	Due Date Requested:		
City: Scarborough	TAT Requested (days):		
State, Zip: ME, 04074			
Phone:	PO #: Purchase Order Requested		
Email: nadams@katahdinlab.com	WO #:		
Project Name: Crossroads ME/ Event Desc: Annual Leachate Collection 4)	Project #: 48003284		
Site: Maine	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Appendix I Volatiles	8270D - Semi-volatiles	350.1, 410.4	6010C, 7470A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	A	N	N	N	N	N	N				
TB				Water			1													1	
~~10ABLC~~				Water																	
~~11ABCLC~~				Water																	
~~123LC~~				Water																	
12ABLC				Water	N	N	3	2	1	1	2	0	1	1	X	2	1			14	* BOD was subbed to Katahdin
~~45LC~~				Water																	
~~7LC~~				Water																	
~~9ABCLC~~				Water																	
~~ABTD~~				Water																	

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/12/19 1800	KAS	Cwallace	6/13/19 0900	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: IR1 3.2

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 10ABLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/11/19	6.91	501.71	16.9	1.26	2.3	-85.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: STRONG Color: LT BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 0-5 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocol (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/11/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 11ABLLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
061119	7.69	3513	19.3	560	2.6	-251	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: Strong Color: DK Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 0-5 Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/11/19	MCM 404m5		K45

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 1 2 3 L C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 11 19	7 2 9	2 3 0 7 0	1 8 0	1 8 4	3 1	1 6 7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: MODERATE Color: LT BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 0-5 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

Composite of 1LC and 2LC - 3LC was dry - MF 6/12/19 as per email from Nick

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/11/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CrossRoads

Site No.: | Sample Point: 7LC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 11 19	7.04	26507	18.6	7.13	2.0	-75.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Strong Color: Lt Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 0-5 Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

CONDUCTANCE = 26507

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06 11 /19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 9ABCLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM-DD-YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —
A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other

Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
061119	7.74	29066*	20.3	4.62	3.72	285	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Strong Color: DK Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 0-5 Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

*Conductance - 29066

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/11/19	Katrina Aman		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | | | | |

Sample Point: 1 2 A B C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: —

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units
06/12/19	7.33	3041	21.4	24.0	0.7	-51.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: SLIGHT Color: LT BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	NICK ADAMS		ICAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154771-1

Login Number: 154771
List Number: 1
Creator: Hulbert, Michael J

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KATAHDIN ANALYTICAL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154771-1

Login Number: 154840
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154821-1
Client Project/Site: Crossroads ME-Ann Leachate -3pts
Sampling Event: Annual Leachate (3 points) (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
7/15/2019 11:32:05 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
J	Indicates an estimated value.
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154821-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154821-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3º C and 2.5º C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: 8ALC (480-154821-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 8BLC (480-154821-2) and 8CLC (480-154821-3). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-479249/22 and CCVL 480-479249/32) associated with batch 480-479249, contained Total Chromium and Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-477677/2-A) and (MB 480-477677/1-A) was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-479425/38) associated with batch 480-479425, contained Total Potassium above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3) was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-479249/44) associated with batch 480-479249, contained Total Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 8ALC (480-154821-1) and 8BLC (480-154821-2) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 310.2: The following samples were diluted due to the nature of the sample matrix: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). Elevated reporting limits (RLs) are provided.

Job ID: 480-154821-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method(s) 9251: The following samples were diluted due to the nature of the sample matrix: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). Elevated reporting limits (RLs) are provided.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-154821-1), 8BLC (480-154821-2) and 8CLC (480-154821-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8ALC — Lab Sample ID: 480-154821-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.16		0.0090		mg/L	1		6010C	Total/NA
Barium	0.77		0.0050		mg/L	1		6010C	Total/NA
Calcium	99		0.15		mg/L	1		6010C	Total/NA
Chromium	0.15		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.022		0.010		mg/L	1		6010C	Total/NA
Iron	6.0		0.030		mg/L	1		6010C	Total/NA
Magnesium	130		0.24		mg/L	1		6010C	Total/NA
Manganese	0.54		0.010		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Potassium	1200		5.0		mg/L	5		6010C	Total/NA
Sodium	1600		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.036		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	4200		450		mg/L	45		310.2	Total/NA
Ammonia as N	660		100		mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	1300		100		mg/L	10		410.4	Total/NA
Cyanide, Total	0.012		0.010		mg/L	1		9012B	Total/NA
Chloride	3300		50		mg/L	100		9251	Total/NA
Total Dissolved Solids	9000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.0		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	120		57		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	83		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	21.8				NTU	1		Field Sampling	Total/NA
Temperature	26.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.60				SU	1		Field Sampling	Total/NA
Specific Conductance	17374				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	64.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8BLC — Lab Sample ID: 480-154821-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.14		0.080		mg/L	1		6010C	Total/NA
Arsenic	0.22		0.0090		mg/L	1		6010C	Total/NA
Barium	0.61		0.0050		mg/L	1		6010C	Total/NA
Calcium	55		0.15		mg/L	1		6010C	Total/NA
Chromium	0.28		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.025		0.010		mg/L	1		6010C	Total/NA
Iron	4.1		0.030		mg/L	1		6010C	Total/NA
Magnesium	97		0.24		mg/L	1		6010C	Total/NA
Manganese	0.24		0.010		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Potassium	1500		5.0		mg/L	5		6010C	Total/NA
Sodium	2000		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.044		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	7800		3000		mg/L	300		310.2	Total/NA
Ammonia as N	1400		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	2000		200		mg/L	20		410.4	Total/NA
Cyanide, Total	0.012		0.010		mg/L	1		9012B	Total/NA
Chloride	3800		50		mg/L	100		9251	Total/NA
Total Dissolved Solids	12000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		4.0		mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: 8BLC (Continued) — Lab Sample ID: 480-154821-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	220		100		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	510		10		mg/L	10		SM 5310C	Total/NA
Turbidity	8.3				NTU	1		Field Sampling	Total/NA
Temperature	27.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.79				SU	1		Field Sampling	Total/NA
Specific Conductance	22517				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	91.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8CLC — Lab Sample ID: 480-154821-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.84		0.080		mg/L	1		6010C	Total/NA
Arsenic	0.23		0.0090		mg/L	1		6010C	Total/NA
Barium	0.49		0.0050		mg/L	1		6010C	Total/NA
Calcium	110		0.15		mg/L	1		6010C	Total/NA
Chromium	0.72		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.024		0.010		mg/L	1		6010C	Total/NA
Copper	0.033		0.025		mg/L	1		6010C	Total/NA
Iron	3.1		0.030		mg/L	1		6010C	Total/NA
Lead	0.014		0.0050		mg/L	1		6010C	Total/NA
Magnesium	92		0.24		mg/L	1		6010C	Total/NA
Manganese	1.0		0.010		mg/L	1		6010C	Total/NA
Nickel	0.20		0.040		mg/L	1		6010C	Total/NA
Potassium	1400		5.0		mg/L	5		6010C	Total/NA
Sodium	1300		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.078		0.025		mg/L	1		6010C	Total/NA
Zinc	0.084		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	9200		3000		mg/L	300		310.2	Total/NA
Ammonia as N	980		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	2200		200		mg/L	20		410.4	Total/NA
Cyanide, Total	0.014		0.010		mg/L	1		9012B	Total/NA
Chloride	2000		25		mg/L	50		9251	Total/NA
Total Dissolved Solids	9000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	260		170		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	640		10		mg/L	10		SM 5310C	Total/NA
Turbidity	35.5				NTU	1		Field Sampling	Total/NA
Temperature	26.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.81				SU	1		Field Sampling	Total/NA
Specific Conductance	18276				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	28.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-154821-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8ALC

Date Collected: 06/12/19 12:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	20		ug/L			06/14/19 00:48	20
1,1,2,2-Tetrachloroethane	ND	U	20		ug/L			06/14/19 00:48	20
1,1,2-Trichloroethane	ND	U	20		ug/L			06/14/19 00:48	20
1,1-Dichloroethane	ND	U	20		ug/L			06/14/19 00:48	20
1,1-Dichloroethene	ND	U	20		ug/L			06/14/19 00:48	20
1,2-Dichloroethane	ND	U	20		ug/L			06/14/19 00:48	20
1,2-Dichloropropane	ND	U	20		ug/L			06/14/19 00:48	20
2-Butanone	ND	U	200		ug/L			06/14/19 00:48	20
2-Hexanone	ND	U	100		ug/L			06/14/19 00:48	20
4-Methyl-2-pentanone	ND	U	100		ug/L			06/14/19 00:48	20
Acetone	ND	U	200		ug/L			06/14/19 00:48	20
Benzene	ND	U	20		ug/L			06/14/19 00:48	20
Bromoform	ND	U	20		ug/L			06/14/19 00:48	20
Bromomethane	ND	U	20		ug/L			06/14/19 00:48	20
Carbon disulfide	ND	U	20		ug/L			06/14/19 00:48	20
Carbon tetrachloride	ND	U	20		ug/L			06/14/19 00:48	20
Chlorobenzene	ND	U	20		ug/L			06/14/19 00:48	20
Dibromochloromethane	ND	U	20		ug/L			06/14/19 00:48	20
Chloroethane	ND	U	20		ug/L			06/14/19 00:48	20
Chloroform	ND	U	20		ug/L			06/14/19 00:48	20
Chloromethane	ND	U	20		ug/L			06/14/19 00:48	20
cis-1,2-Dichloroethene	ND	U	20		ug/L			06/14/19 00:48	20
Bromodichloromethane	ND	U	20		ug/L			06/14/19 00:48	20
Ethylbenzene	ND	U	20		ug/L			06/14/19 00:48	20
Methylene Chloride	ND	U	20		ug/L			06/14/19 00:48	20
Tetrachloroethene	ND	U	20		ug/L			06/14/19 00:48	20
Toluene	ND	U	20		ug/L			06/14/19 00:48	20
trans-1,2-Dichloroethene	ND	U	20		ug/L			06/14/19 00:48	20
trans-1,3-Dichloropropene	ND	U	20		ug/L			06/14/19 00:48	20
Trichloroethene	ND	U	20		ug/L			06/14/19 00:48	20
Vinyl acetate	ND	U	100		ug/L			06/14/19 00:48	20
Vinyl chloride	ND	U	20		ug/L			06/14/19 00:48	20
Xylenes, Total	ND	U	40		ug/L			06/14/19 00:48	20
cis-1,3-Dichloropropene	ND	U	20		ug/L			06/14/19 00:48	20
Styrene	ND	U	20		ug/L			06/14/19 00:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/14/19 00:48*	*20*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*06/14/19 00:48*	*20*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/14/19 00:48*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/14/19 00:48*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
1,2-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
1,3-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
1,4-Dichlorobenzene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,2'-Oxybis(1-chloropropane)	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,4,5-Trichlorophenol	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8ALC
Date Collected: 06/12/19 12:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-1
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,4-Dichlorophenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,4-Dimethylphenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,4-Dinitrophenol	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,4-Dinitrotoluene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2,6-Dinitrotoluene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Chloronaphthalene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Chlorophenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Methylnaphthalene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Methylphenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Nitroaniline	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
2-Nitrophenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
3,3'-Dichlorobenzidine	ND	U	2000		ug/L		06/14/19 15:11	06/21/19 18:23	20
3-Nitroaniline	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4,6-Dinitro-2-methylphenol	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Bromophenyl phenyl ether	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Chloro-3-methylphenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Chloroaniline	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Chlorophenyl phenyl ether	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Methylphenol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Nitroaniline	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
4-Nitrophenol	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Acenaphthene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Acenaphthylene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Anthracene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzo(a)anthracene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzo(a)pyrene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzo(b)fluoranthene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzo(ghi)perylene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzo(k)fluoranthene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzyl alcohol	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Bis(2-chloroethoxy)methane	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Bis(2-chloroethyl)ether	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Bis(2-ethylhexyl) phthalate	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Butyl benzyl phthalate	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Chrysene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Dibenzo(a,h)anthracene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Dibenzofuran	ND	U	500		ug/L		06/14/19 15:11	06/21/19 18:23	20
Diethyl phthalate	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Dimethyl phthalate	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Di-n-butyl phthalate	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Di-n-octyl phthalate	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Fluoranthene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Fluorene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Hexachlorobenzene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Benzoic acid	ND	U	15000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Hexachlorobutadiene	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Hexachlorocyclopentadiene	ND	U	5000		ug/L		06/14/19 15:11	06/21/19 18:23	20
Hexachloroethane	ND	U	1000		ug/L		06/14/19 15:11	06/21/19 18:23	20

Client Sample ID: 8ALC
Date Collected: 06/12/19 12:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-1
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Isophorone	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Naphthalene	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Nitrobenzene	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
N-Nitrosodi-n-propylamine	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
N-Nitrosodiphenylamine	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Pentachlorophenol	ND	U	5000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Phenanthrene	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Phenol	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20
Pyrene	ND	U	1000	ug/L		06/14/19 15:11	06/21/19 18:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*46 - 120*	*06/14/19 15:11*	*06/21/19 18:23*	*20*
2-Fluorobiphenyl	*103*		*48 - 120*	*06/14/19 15:11*	*06/21/19 18:23*	*20*
p-Terphenyl-d14	*81*		*59 - 136*	*06/14/19 15:11*	*06/21/19 18:23*	*20*
Phenol-d5	*45*		*22 - 120*	*06/14/19 15:11*	*06/21/19 18:23*	*20*
2-Fluorophenol	*66*		*35 - 120*	*06/14/19 15:11*	*06/21/19 18:23*	*20*
2,4,6-Tribromophenol	*123*	*	*41 - 120*	*06/14/19 15:11*	*06/21/19 18:23*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080	mg/L		06/14/19 07:45	06/22/19 23:14	1
Antimony	ND	U	0.015	mg/L		06/14/19 07:45	06/22/19 23:14	1
Arsenic	**0.16**		0.0090	mg/L		06/14/19 07:45	06/22/19 23:14	1
Barium	**0.77**		0.0050	mg/L		06/14/19 07:45	06/22/19 23:14	1
Beryllium	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 23:14	1
Cadmium	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 23:14	1
Calcium	**99**		0.15	mg/L		06/14/19 07:45	06/22/19 23:14	1
Chromium	**0.15**		0.010	mg/L		06/14/19 07:45	06/22/19 23:14	1
Cobalt	**0.022**		0.010	mg/L		06/14/19 07:45	06/22/19 23:14	1
Copper	ND	U	0.025	mg/L		06/14/19 07:45	06/22/19 23:14	1
Iron	**6.0**		0.030	mg/L		06/14/19 07:45	06/22/19 23:14	1
Lead	ND	U	0.0050	mg/L		06/14/19 07:45	06/22/19 23:14	1
Magnesium	**130**		0.24	mg/L		06/14/19 07:45	06/22/19 23:14	1
Manganese	**0.54**		0.010	mg/L		06/14/19 07:45	06/22/19 23:14	1
Nickel	**0.18**		0.040	mg/L		06/14/19 07:45	06/22/19 23:14	1
Potassium	**1200**		5.0	mg/L		06/14/19 07:45	06/25/19 00:37	5
Selenium	ND	U	0.010	mg/L		06/14/19 07:45	06/22/19 23:14	1
Silver	ND	U	0.015	mg/L		06/14/19 07:45	06/22/19 23:14	1
Sodium	**1600**		2.0	mg/L		06/14/19 07:45	06/25/19 00:37	5
Thallium	ND	U	0.020	mg/L		06/14/19 07:45	06/22/19 23:14	1
Vanadium	**0.036**		0.025	mg/L		06/14/19 07:45	06/22/19 23:14	1
Zinc	ND	U	0.020	mg/L		06/14/19 07:45	06/22/19 23:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/14/19 11:20	06/14/19 14:28	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8ALC

Date Collected: 06/12/19 12:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-1

Matrix: Leachate

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**4200**		450		mg/L			06/27/19 18:42	45
Ammonia as N	**660**		100		mg/L		07/09/19 10:30	07/09/19 14:12	1
Nitrate	ND	U	0.050		mg/L as N			06/13/19 19:30	1
Chemical Oxygen Demand	**1300**		100		mg/L			06/25/19 11:04	10
Cyanide, Total	**0.012**		0.010		mg/L		07/07/19 13:21	07/08/19 11:57	1
Sulfate	ND	U	5.0		mg/L			07/09/19 14:14	1
Chloride	**3300**		50		mg/L			07/09/19 14:08	100
Total Dissolved Solids	**9000**		50		mg/L			06/18/19 08:12	1
Biochemical Oxygen Demand	**120**		57		mg/L			07/18/19 07:26	1
Total Organic Carbon	**83**		1.0		mg/L			07/05/19 21:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**8.0**		4.0		mg/L			06/18/19 08:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**21.8**				NTU			06/12/19 12:15	1
Temperature	**26.4**				Degrees C			06/12/19 12:15	1
Field pH	**7.60**				SU			06/12/19 12:15	1
Specific Conductance	**17374**				umhos/cm			06/12/19 12:15	1
Field EH/ORP	**64.4**				millivolts			06/12/19 12:15	1
Oxygen, Dissolved	**2.9**				mg/L			06/12/19 12:15	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8BLC

Date Collected: 06/12/19 14:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-2

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	40		ug/L			06/14/19 01:12	40
1,1,2,2-Tetrachloroethane	ND	U	40		ug/L			06/14/19 01:12	40
1,1,2-Trichloroethane	ND	U	40		ug/L			06/14/19 01:12	40
1,1-Dichloroethane	ND	U	40		ug/L			06/14/19 01:12	40
1,1-Dichloroethene	ND	U	40		ug/L			06/14/19 01:12	40
1,2-Dichloroethane	ND	U	40		ug/L			06/14/19 01:12	40
1,2-Dichloropropane	ND	U	40		ug/L			06/14/19 01:12	40
2-Butanone	ND	U	400		ug/L			06/14/19 01:12	40
2-Hexanone	ND	U	200		ug/L			06/14/19 01:12	40
4-Methyl-2-pentanone	ND	U	200		ug/L			06/14/19 01:12	40
Acetone	ND	U	400		ug/L			06/14/19 01:12	40
Benzene	ND	U	40		ug/L			06/14/19 01:12	40
Bromoform	ND	U	40		ug/L			06/14/19 01:12	40
Bromomethane	ND	U	40		ug/L			06/14/19 01:12	40
Carbon disulfide	ND	U	40		ug/L			06/14/19 01:12	40
Carbon tetrachloride	ND	U	40		ug/L			06/14/19 01:12	40
Chlorobenzene	ND	U	40		ug/L			06/14/19 01:12	40
Dibromochloromethane	ND	U	40		ug/L			06/14/19 01:12	40
Chloroethane	ND	U	40		ug/L			06/14/19 01:12	40
Chloroform	ND	U	40		ug/L			06/14/19 01:12	40
Chloromethane	ND	U	40		ug/L			06/14/19 01:12	40
cis-1,2-Dichloroethene	ND	U	40		ug/L			06/14/19 01:12	40
Bromodichloromethane	ND	U	40		ug/L			06/14/19 01:12	40
Ethylbenzene	ND	U	40		ug/L			06/14/19 01:12	40
Methylene Chloride	ND	U	40		ug/L			06/14/19 01:12	40
Tetrachloroethene	ND	U	40		ug/L			06/14/19 01:12	40
Toluene	ND	U	40		ug/L			06/14/19 01:12	40
trans-1,2-Dichloroethene	ND	U	40		ug/L			06/14/19 01:12	40
trans-1,3-Dichloropropene	ND	U	40		ug/L			06/14/19 01:12	40
Trichloroethene	ND	U	40		ug/L			06/14/19 01:12	40
Vinyl acetate	ND	U	200		ug/L			06/14/19 01:12	40
Vinyl chloride	ND	U	40		ug/L			06/14/19 01:12	40
Xylenes, Total	ND	U	80		ug/L			06/14/19 01:12	40
cis-1,3-Dichloropropene	ND	U	40		ug/L			06/14/19 01:12	40
Styrene	ND	U	40		ug/L			06/14/19 01:12	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*06/14/19 01:12*	*40*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/14/19 01:12*	*40*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/14/19 01:12*	*40*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/14/19 01:12*	*40*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
1,2-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
1,3-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
1,4-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,2'-Oxybis(1-chloropropane)	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,4,5-Trichlorophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8BLC
Date Collected: 06/12/19 14:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-2
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,4-Dichlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,4-Dimethylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,4-Dinitrophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,4-Dinitrotoluene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2,6-Dinitrotoluene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Chloronaphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Chlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Methylnaphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
2-Nitrophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
3,3'-Dichlorobenzidine	ND	U	500		ug/L		06/14/19 15:11	06/21/19 18:51	5
3-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
4,6-Dinitro-2-methylphenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Bromophenyl phenyl ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Chloro-3-methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Chloroaniline	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Chlorophenyl phenyl ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
4-Nitrophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
Acenaphthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Acenaphthylene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzo(a)anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzo(a)pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzo(b)fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzo(ghi)perylene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzo(k)fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzyl alcohol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Bis(2-chloroethoxy)methane	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Bis(2-chloroethyl)ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Bis(2-ethylhexyl) phthalate	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
Butyl benzyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Chrysene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Dibenzo(a,h)anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Dibenzofuran	ND	U	130		ug/L		06/14/19 15:11	06/21/19 18:51	5
Diethyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Dimethyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Di-n-butyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Di-n-octyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Fluorene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Hexachlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Benzoic acid	ND	U	3800		ug/L		06/14/19 15:11	06/21/19 18:51	5
Hexachlorobutadiene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Hexachlorocyclopentadiene	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
Hexachloroethane	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5

Client Sample ID: 8BLC

Date Collected: 06/12/19 14:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-2

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Isophorone	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Naphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Nitrobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
N-Nitrosodi-n-propylamine	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
N-Nitrosodiphenylamine	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Pentachlorophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 18:51	5
Phenanthrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Phenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5
Pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 18:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*46 - 120*	*06/14/19 15:11*	*06/21/19 18:51*	*5*
2-Fluorobiphenyl	*97*		*48 - 120*	*06/14/19 15:11*	*06/21/19 18:51*	*5*
p-Terphenyl-d14	*54*	*	*59 - 136*	*06/14/19 15:11*	*06/21/19 18:51*	*5*
Phenol-d5	*45*		*22 - 120*	*06/14/19 15:11*	*06/21/19 18:51*	*5*
2-Fluorophenol	*67*		*35 - 120*	*06/14/19 15:11*	*06/21/19 18:51*	*5*
2,4,6-Tribromophenol	*120*		*41 - 120*	*06/14/19 15:11*	*06/21/19 18:51*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**		0.080		mg/L		06/14/19 07:45	06/22/19 23:10	1
Antimony	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 23:10	1
Arsenic	**0.22**		0.0090		mg/L		06/14/19 07:45	06/22/19 23:10	1
Barium	**0.61**		0.0050		mg/L		06/14/19 07:45	06/22/19 23:10	1
Beryllium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 23:10	1
Cadmium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 23:10	1
Calcium	**55**		0.15		mg/L		06/14/19 07:45	06/22/19 23:10	1
Chromium	**0.28**		0.010		mg/L		06/14/19 07:45	06/22/19 23:10	1
Cobalt	**0.025**		0.010		mg/L		06/14/19 07:45	06/22/19 23:10	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 23:10	1
Iron	**4.1**		0.030		mg/L		06/14/19 07:45	06/22/19 23:10	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 23:10	1
Magnesium	**97**		0.24		mg/L		06/14/19 07:45	06/22/19 23:10	1
Manganese	**0.24**		0.010		mg/L		06/14/19 07:45	06/22/19 23:10	1
Nickel	**0.18**		0.040		mg/L		06/14/19 07:45	06/22/19 23:10	1
Potassium	**1500**		5.0		mg/L		06/14/19 07:45	06/25/19 00:29	5
Selenium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 23:10	1
Silver	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 23:10	1
Sodium	**2000**		2.0		mg/L		06/14/19 07:45	06/25/19 00:29	5
Thallium	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 23:10	1
Vanadium	**0.044**		0.025		mg/L		06/14/19 07:45	06/22/19 23:10	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 23:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 14:33	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8BLC

Date Collected: 06/12/19 14:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-2

Matrix: Leachate

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**7800**		3000		mg/L			06/26/19 11:06	300
Ammonia as N	**1400**		200		mg/L		07/09/19 10:30	07/09/19 14:13	2
Nitrate	ND	U	0.050		mg/L as N			06/13/19 19:31	1
Chemical Oxygen Demand	**2000**		200		mg/L			06/27/19 10:27	20
Cyanide, Total	**0.012**		0.010		mg/L		06/24/19 13:28	06/25/19 13:01	1
Sulfate	ND	U	5.0		mg/L			07/08/19 19:01	1
Chloride	**3800**		50		mg/L			07/09/19 14:08	100
Total Dissolved Solids	**12000**		50		mg/L			06/18/19 08:12	1
Biochemical Oxygen Demand	**220**		100		mg/L			07/18/19 08:28	1
Total Organic Carbon	**510**		10		mg/L			07/06/19 04:32	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**19**		4.0		mg/L			06/18/19 08:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**8.3**				NTU			06/12/19 14:10	1
Temperature	**27.5**				Degrees C			06/12/19 14:10	1
Field pH	**7.79**				SU			06/12/19 14:10	1
Specific Conductance	**22517**				umhos/cm			06/12/19 14:10	1
Field EH/ORP	**91.9**				millivolts			06/12/19 14:10	1
Oxygen, Dissolved	**1.6**				mg/L			06/12/19 14:10	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8CLC

Date Collected: 06/12/19 14:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-3

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	80		ug/L			06/14/19 01:36	80
1,1,2,2-Tetrachloroethane	ND	U	80		ug/L			06/14/19 01:36	80
1,1,2-Trichloroethane	ND	U	80		ug/L			06/14/19 01:36	80
1,1-Dichloroethane	ND	U	80		ug/L			06/14/19 01:36	80
1,1-Dichloroethene	ND	U	80		ug/L			06/14/19 01:36	80
1,2-Dichloroethane	ND	U	80		ug/L			06/14/19 01:36	80
1,2-Dichloropropane	ND	U	80		ug/L			06/14/19 01:36	80
2-Butanone	ND	U	800		ug/L			06/14/19 01:36	80
2-Hexanone	ND	U	400		ug/L			06/14/19 01:36	80
4-Methyl-2-pentanone	ND	U	400		ug/L			06/14/19 01:36	80
Acetone	ND	U	800		ug/L			06/14/19 01:36	80
Benzene	ND	U	80		ug/L			06/14/19 01:36	80
Bromoform	ND	U	80		ug/L			06/14/19 01:36	80
Bromomethane	ND	U	80		ug/L			06/14/19 01:36	80
Carbon disulfide	ND	U	80		ug/L			06/14/19 01:36	80
Carbon tetrachloride	ND	U	80		ug/L			06/14/19 01:36	80
Chlorobenzene	ND	U	80		ug/L			06/14/19 01:36	80
Dibromochloromethane	ND	U	80		ug/L			06/14/19 01:36	80
Chloroethane	ND	U	80		ug/L			06/14/19 01:36	80
Chloroform	ND	U	80		ug/L			06/14/19 01:36	80
Chloromethane	ND	U	80		ug/L			06/14/19 01:36	80
cis-1,2-Dichloroethene	ND	U	80		ug/L			06/14/19 01:36	80
Bromodichloromethane	ND	U	80		ug/L			06/14/19 01:36	80
Ethylbenzene	ND	U	80		ug/L			06/14/19 01:36	80
Methylene Chloride	ND	U	80		ug/L			06/14/19 01:36	80
Tetrachloroethene	ND	U	80		ug/L			06/14/19 01:36	80
Toluene	ND	U	80		ug/L			06/14/19 01:36	80
trans-1,2-Dichloroethene	ND	U	80		ug/L			06/14/19 01:36	80
trans-1,3-Dichloropropene	ND	U	80		ug/L			06/14/19 01:36	80
Trichloroethene	ND	U	80		ug/L			06/14/19 01:36	80
Vinyl acetate	ND	U	400		ug/L			06/14/19 01:36	80
Vinyl chloride	ND	U	80		ug/L			06/14/19 01:36	80
Xylenes, Total	ND	U	160		ug/L			06/14/19 01:36	80
cis-1,3-Dichloropropene	ND	U	80		ug/L			06/14/19 01:36	80
Styrene	ND	U	80		ug/L			06/14/19 01:36	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/14/19 01:36*	*80*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/14/19 01:36*	*80*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/14/19 01:36*	*80*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/14/19 01:36*	*80*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
1,2-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
1,3-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
1,4-Dichlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,2'-Oxybis(1-chloropropane)	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,4,5-Trichlorophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5

Client Sample ID: 8CLC
Date Collected: 06/12/19 14:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-3
Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,4-Dichlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,4-Dimethylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,4-Dinitrophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,4-Dinitrotoluene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2,6-Dinitrotoluene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Chloronaphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Chlorophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Methylnaphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
2-Nitrophenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
3,3'-Dichlorobenzidine	ND	U	500		ug/L		06/14/19 15:11	06/21/19 19:19	5
3-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
4,6-Dinitro-2-methylphenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Bromophenyl phenyl ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Chloro-3-methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Chloroaniline	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Chlorophenyl phenyl ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Methylphenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Nitroaniline	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
4-Nitrophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
Acenaphthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Acenaphthylene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzo(a)anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzo(a)pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzo(b)fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzo(ghi)perylene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzo(k)fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzyl alcohol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Bis(2-chloroethoxy)methane	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Bis(2-chloroethyl)ether	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Bis(2-ethylhexyl) phthalate	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
Butyl benzyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Chrysene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Dibenzo(a,h)anthracene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Dibenzofuran	ND	U	130		ug/L		06/14/19 15:11	06/21/19 19:19	5
Diethyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Dimethyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Di-n-butyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Di-n-octyl phthalate	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Fluoranthene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Fluorene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Hexachlorobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Benzoic acid	ND	U	3800		ug/L		06/14/19 15:11	06/21/19 19:19	5
Hexachlorobutadiene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Hexachlorocyclopentadiene	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
Hexachloroethane	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5

Client Sample ID: 8CLC

Date Collected: 06/12/19 14:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-3

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Isophorone	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Naphthalene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Nitrobenzene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
N-Nitrosodi-n-propylamine	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
N-Nitrosodiphenylamine	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Pentachlorophenol	ND	U	1300		ug/L		06/14/19 15:11	06/21/19 19:19	5
Phenanthrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Phenol	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5
Pyrene	ND	U	250		ug/L		06/14/19 15:11	06/21/19 19:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*46 - 120*	*06/14/19 15:11*	*06/21/19 19:19*	*5*
2-Fluorobiphenyl	*94*		*48 - 120*	*06/14/19 15:11*	*06/21/19 19:19*	*5*
p-Terphenyl-d14	*65*		*59 - 136*	*06/14/19 15:11*	*06/21/19 19:19*	*5*
Phenol-d5	*44*		*22 - 120*	*06/14/19 15:11*	*06/21/19 19:19*	*5*
2-Fluorophenol	*61*		*35 - 120*	*06/14/19 15:11*	*06/21/19 19:19*	*5*
2,4,6-Tribromophenol	*126*	*	*41 - 120*	*06/14/19 15:11*	*06/21/19 19:19*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.84**		0.080		mg/L		06/14/19 07:45	06/22/19 23:18	1
Antimony	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 23:18	1
Arsenic	**0.23**		0.0090		mg/L		06/14/19 07:45	06/22/19 23:18	1
Barium	**0.49**		0.0050		mg/L		06/14/19 07:45	06/22/19 23:18	1
Beryllium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 23:18	1
Cadmium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 23:18	1
Calcium	**110**		0.15		mg/L		06/14/19 07:45	06/22/19 23:18	1
Chromium	**0.72**		0.010		mg/L		06/14/19 07:45	06/22/19 23:18	1
Cobalt	**0.024**		0.010		mg/L		06/14/19 07:45	06/22/19 23:18	1
Copper	**0.033**		0.025		mg/L		06/14/19 07:45	06/22/19 23:18	1
Iron	**3.1**		0.030		mg/L		06/14/19 07:45	06/22/19 23:18	1
Lead	**0.014**		0.0050		mg/L		06/14/19 07:45	06/22/19 23:18	1
Magnesium	**92**		0.24		mg/L		06/14/19 07:45	06/22/19 23:18	1
Manganese	**1.0**		0.010		mg/L		06/14/19 07:45	06/22/19 23:18	1
Nickel	**0.20**		0.040		mg/L		06/14/19 07:45	06/22/19 23:18	1
Potassium	**1400**		5.0		mg/L		06/14/19 07:45	06/25/19 00:44	5
Selenium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 23:18	1
Silver	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 23:18	1
Sodium	**1300**		2.0		mg/L		06/14/19 07:45	06/25/19 00:44	5
Thallium	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 23:18	1
Vanadium	**0.078**		0.025		mg/L		06/14/19 07:45	06/22/19 23:18	1
Zinc	**0.084**		0.020		mg/L		06/14/19 07:45	06/25/19 00:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 14:30	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8CLC

Date Collected: 06/12/19 14:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-3

Matrix: Leachate

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**9200**		3000		mg/L			06/26/19 11:14	300
Ammonia as N	**980**		200		mg/L		07/09/19 10:30	07/09/19 14:14	2
Nitrate	ND	U	0.050		mg/L as N			06/13/19 21:38	1
Chemical Oxygen Demand	**2200**		200		mg/L			06/27/19 10:27	20
Cyanide, Total	**0.014**		0.010		mg/L		06/24/19 13:28	06/25/19 13:02	1
Sulfate	ND	U	5.0		mg/L			07/09/19 14:14	1
Chloride	**2000**		25		mg/L			07/09/19 14:08	50
Total Dissolved Solids	**9000**		50		mg/L			06/18/19 08:12	1
Biochemical Oxygen Demand	**260**		170		mg/L			07/18/19 08:41	1
Total Organic Carbon	**640**		10		mg/L			07/06/19 05:17	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**20**		4.0		mg/L			06/18/19 08:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**35.5**				NTU			06/12/19 14:30	1
Temperature	**26.9**				Degrees C			06/12/19 14:30	1
Field pH	**7.81**				SU			06/12/19 14:30	1
Specific Conductance	**18276**				umhos/cm			06/12/19 14:30	1
Field EH/ORP	**28.5**				millivolts			06/12/19 14:30	1
Oxygen, Dissolved	**3.2**				mg/L			06/12/19 14:30	1

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/14/19 02:01	1
2-Butanone	ND	U	10		ug/L			06/14/19 02:01	1
2-Hexanone	ND	U	5.0		ug/L			06/14/19 02:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/14/19 02:01	1
Acetone	ND	U	10		ug/L			06/14/19 02:01	1
Benzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromoform	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromomethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Carbon disulfide	ND	U	1.0		ug/L			06/14/19 02:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Chlorobenzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Dibromochloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloroform	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromodichloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Ethylbenzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Methylene Chloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Tetrachloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Toluene	ND	U	1.0		ug/L			06/14/19 02:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 02:01	1
Trichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Vinyl acetate	ND	U	5.0		ug/L			06/14/19 02:01	1
Vinyl chloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Xylenes, Total	ND	U	2.0		ug/L			06/14/19 02:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 02:01	1
Styrene	ND	U	1.0		ug/L			06/14/19 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*06/14/19 02:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*			*06/14/19 02:01*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*			*06/14/19 02:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*			*06/14/19 02:01*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154821-1	8ALC	108	108	101	99
480-154821-2	8BLC	107	101	104	97
480-154821-3	8CLC	105	101	105	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-477714/5	Lab Control Sample	97	99	98	99
MB 480-477714/7	Method Blank	102	99	104	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154821-4	TB	103	103	102	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
480-154821-1	8ALC	81	103	81	45	66	123 *
480-154821-2	8BLC	77	97	54 *	45	67	120
480-154821-3	8CLC	78	94	65	44	61	126 *

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14

Surrogate Summary

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (59-136)	PHL (22-120)	2FP (35-120)	TBP (41-120)		
LCS 480-477897/2-A	Lab Control Sample	81	95	105	53	68	118		
MB 480-477897/1-A	Method Blank	74	91	102	41	58	88		

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-477714/7
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/13/19 22:05	1
2-Butanone	ND	U	10		ug/L			06/13/19 22:05	1
2-Hexanone	ND	U	5.0		ug/L			06/13/19 22:05	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/13/19 22:05	1
Acetone	ND	U	10		ug/L			06/13/19 22:05	1
Benzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromoform	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromomethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Carbon disulfide	ND	U	1.0		ug/L			06/13/19 22:05	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Chlorobenzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Dibromochloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloroethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloroform	ND	U	1.0		ug/L			06/13/19 22:05	1
Chloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Bromodichloromethane	ND	U	1.0		ug/L			06/13/19 22:05	1
Ethylbenzene	ND	U	1.0		ug/L			06/13/19 22:05	1
Methylene Chloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Tetrachloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Toluene	ND	U	1.0		ug/L			06/13/19 22:05	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 22:05	1
Trichloroethene	ND	U	1.0		ug/L			06/13/19 22:05	1
Vinyl acetate	ND	U	5.0		ug/L			06/13/19 22:05	1
Vinyl chloride	ND	U	1.0		ug/L			06/13/19 22:05	1
Xylenes, Total	ND	U	2.0		ug/L			06/13/19 22:05	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 22:05	1
Styrene	ND	U	1.0		ug/L			06/13/19 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/13/19 22:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/13/19 22:05*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/13/19 22:05*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/13/19 22:05*	*1*

Lab Sample ID: LCS 480-477714/5
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	27.8		ug/L		111	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-477714/5
Matrix: Water
Analysis Batch: 477714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	23.2		ug/L		93	66 - 127
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
2-Butanone	125	93.8		ug/L		75	57 - 140
2-Hexanone	125	102		ug/L		81	65 - 127
4-Methyl-2-pentanone	125	105		ug/L		84	71 - 125
Acetone	125	99.9		ug/L		80	56 - 142
Benzene	25.0	22.9		ug/L		92	71 - 124
Bromoform	25.0	28.0		ug/L		112	61 - 132
Bromomethane	25.0	24.9		ug/L		100	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	27.3		ug/L		109	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Dibromochloromethane	25.0	27.8		ug/L		111	75 - 125
Chloroethane	25.0	25.2		ug/L		101	69 - 136
Chloroform	25.0	21.7		ug/L		87	73 - 127
Chloromethane	25.0	23.1		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
Methylene Chloride	25.0	21.9		ug/L		88	75 - 124
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl acetate	50.0	43.2		ug/L		86	50 - 144
Vinyl chloride	25.0	25.6		ug/L		103	65 - 133
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	74 - 124
Styrene	25.0	25.9		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-477897/1-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477897

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477897/1-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477897

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
1,3-Dichlorobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
1,4-Dichlorobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,2'-Oxybis(1-chloropropane)	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4,5-Trichlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dinitrotoluene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2,6-Dinitrotoluene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Chloronaphthalene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Methylnaphthalene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Nitroaniline	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
3,3'-Dichlorobenzidine	ND	U	20		ug/L		06/14/19 15:11	06/21/19 00:00	1
3-Nitroaniline	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Bromophenyl phenyl ether	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Chloroaniline	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Chlorophenyl phenyl ether	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Nitroaniline	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Acenaphthene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Acenaphthylene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Anthracene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzo(a)anthracene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzo(a)pyrene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzo(b)fluoranthene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzo(ghi)perylene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzo(k)fluoranthene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzyl alcohol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Bis(2-chloroethoxy)methane	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Bis(2-chloroethyl)ether	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Bis(2-ethylhexyl) phthalate	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Butyl benzyl phthalate	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Chrysene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Dibenzo(a,h)anthracene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Dibenzofuran	ND	U	5.0		ug/L		06/14/19 15:11	06/21/19 00:00	1
Diethyl phthalate	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Dimethyl phthalate	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Di-n-butyl phthalate	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Di-n-octyl phthalate	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Fluoranthene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Fluorene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477897/1-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477897

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Benzoic acid	ND	U	150		ug/L		06/14/19 15:11	06/21/19 00:00	1
Hexachlorobutadiene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Hexachlorocyclopentadiene	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Hexachloroethane	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Indeno(1,2,3-cd)pyrene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Isophorone	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Naphthalene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Nitrobenzene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
N-Nitrosodi-n-propylamine	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
N-Nitrosodiphenylamine	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Phenanthrene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
Pyrene	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*46 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
Phenol-d5	*41*		*22 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2-Fluorophenol	*58*		*35 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2,4,6-Tribromophenol	*88*		*41 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*

Lab Sample ID: LCS 480-477897/2-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	32.0	28.2		ug/L		88	40 - 120
1,2-Dichlorobenzene	32.0	25.2		ug/L		79	49 - 120
1,3-Dichlorobenzene	32.0	24.6		ug/L		77	50 - 120
1,4-Dichlorobenzene	32.0	24.9		ug/L		78	51 - 120
2,2'-Oxybis(1-chloropropane)	32.0	14.9		ug/L		47	21 - 136
2,4,5-Trichlorophenol	32.0	33.3	J	ug/L		104	65 - 126
2,4,6-Trichlorophenol	32.0	31.4		ug/L		98	64 - 120
2,4-Dichlorophenol	32.0	30.4		ug/L		95	63 - 120
2,4-Dimethylphenol	32.0	30.9		ug/L		97	47 - 120
2,4-Dinitrophenol	64.0	67.8		ug/L		106	31 - 137
2,4-Dinitrotoluene	32.0	36.8		ug/L		115	69 - 120
2,6-Dinitrotoluene	32.0	33.3		ug/L		104	68 - 120
2-Chloronaphthalene	32.0	35.3		ug/L		110	58 - 120
2-Chlorophenol	32.0	27.6		ug/L		86	48 - 120
2-Methylnaphthalene	32.0	30.2		ug/L		94	59 - 120
2-Methylphenol	32.0	24.4		ug/L		76	39 - 120
2-Nitroaniline	32.0	28.7	J	ug/L		90	54 - 127
2-Nitrophenol	32.0	32.1		ug/L		100	52 - 125
3,3'-Dichlorobenzidine	64.0	79.9		ug/L		125	49 - 135

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477897/2-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	32.0	28.5	J	ug/L		89	51 - 120
4,6-Dinitro-2-methylphenol	64.0	73.2		ug/L		114	46 - 136
4-Bromophenyl phenyl ether	32.0	33.5		ug/L		105	65 - 120
4-Chloro-3-methylphenol	32.0	32.0		ug/L		100	61 - 123
4-Chloroaniline	32.0	25.7		ug/L		80	30 - 120
4-Chlorophenyl phenyl ether	32.0	33.3		ug/L		104	62 - 120
4-Methylphenol	32.0	24.5		ug/L		76	29 - 131
4-Nitroaniline	32.0	32.4	J	ug/L		101	65 - 120
4-Nitrophenol	64.0	69.0		ug/L		108	45 - 120
Acenaphthene	32.0	31.3		ug/L		98	60 - 120
Acenaphthylene	32.0	32.7		ug/L		102	63 - 120
Anthracene	32.0	32.9		ug/L		103	67 - 120
Benzo(a)anthracene	32.0	33.0		ug/L		103	70 - 121
Benzo(a)pyrene	32.0	31.3		ug/L		98	60 - 123
Benzo(b)fluoranthene	32.0	37.1		ug/L		116	66 - 126
Benzo(ghi)perylene	32.0	34.9		ug/L		109	66 - 150
Benzo(k)fluoranthene	32.0	34.6		ug/L		108	65 - 124
Benzyl alcohol	32.0	22.5		ug/L		70	41 - 126
Bis(2-chloroethoxy)methane	32.0	25.1		ug/L		78	50 - 128
Bis(2-chloroethyl)ether	32.0	22.5		ug/L		70	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.8	J	ug/L		109	63 - 139
Butyl benzyl phthalate	32.0	32.9		ug/L		103	70 - 129
Chrysene	32.0	33.5		ug/L		105	69 - 120
Dibenzo(a,h)anthracene	32.0	34.8		ug/L		109	65 - 135
Dibenzofuran	32.0	32.0		ug/L		100	66 - 120
Diethyl phthalate	32.0	37.6		ug/L		117	59 - 127
Dimethyl phthalate	32.0	35.0		ug/L		109	68 - 120
Di-n-butyl phthalate	32.0	36.8		ug/L		115	69 - 131
Di-n-octyl phthalate	32.0	35.4		ug/L		111	63 - 140
Fluoranthene	32.0	35.8		ug/L		112	69 - 126
Fluorene	32.0	33.5		ug/L		105	66 - 120
Hexachlorobenzene	32.0	36.1		ug/L		113	61 - 120
Benzoic acid	256	ND	U	ug/L		21	10 - 120
Hexachlorobutadiene	32.0	31.8		ug/L		99	35 - 120
Hexachlorocyclopentadiene	32.0	23.0	J	ug/L		72	31 - 120
Hexachloroethane	32.0	24.5		ug/L		77	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	34.3		ug/L		107	69 - 146
Isophorone	32.0	26.9		ug/L		84	55 - 120
Naphthalene	32.0	27.7		ug/L		86	57 - 120
Nitrobenzene	32.0	27.3		ug/L		85	53 - 123
N-Nitrosodi-n-propylamine	32.0	24.9		ug/L		78	32 - 140
N-Nitrosodiphenylamine	32.0	29.3		ug/L		92	61 - 120
Pentachlorophenol	64.0	51.7		ug/L		81	29 - 136
Phenanthrene	32.0	32.1		ug/L		100	68 - 120
Phenol	32.0	17.6		ug/L		55	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-477897/2-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477897

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*81*		*46 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
p-Terphenyl-d14	*105*		*59 - 136*
Phenol-d5	*53*		*22 - 120*
2-Fluorophenol	*68*		*35 - 120*
2,4,6-Tribromophenol	*118*		*41 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-477677/1-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477677

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 21:31	1
Antimony	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 21:31	1
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 21:31	1
Barium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Beryllium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Cadmium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Calcium	ND	U	0.15		mg/L		06/14/19 07:45	06/22/19 21:31	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Cobalt	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 21:31	1
Iron	ND	U	0.030		mg/L		06/14/19 07:45	06/22/19 21:31	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Magnesium	ND	U	0.24		mg/L		06/14/19 07:45	06/22/19 21:31	1
Manganese	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 21:31	1
Potassium	ND	U	1.0		mg/L		06/14/19 07:45	06/22/19 21:31	1
Selenium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Silver	ND	U	0.015		mg/L		06/14/19 07:45	06/22/19 21:31	1
Sodium	ND	U	0.40		mg/L		06/14/19 07:45	06/22/19 21:31	1
Thallium	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 21:31	1
Vanadium	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 21:31	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 21:31	1

Lab Sample ID: LCS 480-477677/2-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477677

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			10.0	9.67		mg/L		97	80 - 120		
Antimony			0.200	0.215		mg/L		107	80 - 120		
Arsenic			0.200	0.196		mg/L		98	80 - 120		
Barium			0.200	0.194		mg/L		97	80 - 120		
Beryllium			0.200	0.201		mg/L		101	80 - 120		
Cadmium			0.200	0.197		mg/L		99	80 - 120		
Calcium			10.0	9.60		mg/L		96	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-477677/2-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.189		mg/L		94	80 - 120
Iron	10.0	9.50		mg/L		95	80 - 120
Lead	0.200	0.189		mg/L		95	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.200	0.193		mg/L		96	80 - 120
Nickel	0.200	0.190		mg/L		95	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120
Selenium	0.200	0.186		mg/L		93	80 - 120
Silver	0.0500	0.0486		mg/L		97	80 - 120
Sodium	10.0	9.17		mg/L		92	80 - 120
Thallium	0.200	0.189		mg/L		94	80 - 120
Vanadium	0.200	0.192		mg/L		96	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-477813/1-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477813

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/14/19 11:20	06/14/19 13:55	1

Lab Sample ID: LCS 480-477813/2-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00695		mg/L		104	80 - 120

Lab Sample ID: MB 480-477814/1-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477814

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/14/19 11:20	06/14/19 14:31	1

Lab Sample ID: LCS 480-477814/2-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00713		mg/L		107	80 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-479741/12
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 10:44	1

Lab Sample ID: MB 480-479741/24
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 10:55	1

Lab Sample ID: MB 480-479741/32
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 11:05	1

Lab Sample ID: MB 480-479741/39
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 11:07	1

Lab Sample ID: LCS 480-479741/13
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.6		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-479741/25
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	46.1		mg/L		92	90 - 110		

Lab Sample ID: LCS 480-479741/33
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.6		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-479741/40
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	46.9		mg/L		94	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-480112/101
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/27/19 18:42	1

Lab Sample ID: MB 480-480112/35
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/27/19 16:41	1

Lab Sample ID: MB 480-480112/53
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/27/19 17:07	1

Lab Sample ID: LCS 480-480112/102
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.8		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-480112/36
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.2		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-480112/54
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.8		mg/L		98	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-481286/1-A
Matrix: Water
Analysis Batch: 481345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481286

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L		07/09/19 10:30	07/09/19 14:08	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-481286/2-A
Matrix: Water
Analysis Batch: 481345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.928		mg/L		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-479499/3
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/25/19 11:04	1

Lab Sample ID: LCS 480-479499/4
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: MB 480-479947/3
Matrix: Water
Analysis Batch: 479947

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/27/19 10:27	1

Lab Sample ID: MB 480-479947/51
Matrix: Water
Analysis Batch: 479947

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			06/27/19 10:27	1

Lab Sample ID: LCS 480-479947/4
Matrix: Water
Analysis Batch: 479947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.5		mg/L		94	90 - 110

Lab Sample ID: LCS 480-479947/52
Matrix: Water
Analysis Batch: 479947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.5		mg/L		102	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-479318/1-A
Matrix: Water
Analysis Batch: 479511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010		mg/L		06/24/19 13:28	06/25/19 12:54	1

Lab Sample ID: LCS 480-479318/2-A
Matrix: Water
Analysis Batch: 479511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.235		mg/L		94	90 - 110		

Lab Sample ID: 480-154821-3 MS
Matrix: Leachate
Analysis Batch: 479511

Client Sample ID: 8CLC
Prep Type: Total/NA
Prep Batch: 479318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.014		0.100	0.0416	*	mg/L		27	90 - 110		

Lab Sample ID: MB 480-481035/1-A
Matrix: Water
Analysis Batch: 481145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481035

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010		mg/L		07/07/19 13:21	07/08/19 11:51	1

Lab Sample ID: LCS 480-481035/2-A
Matrix: Water
Analysis Batch: 481145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.400	0.387		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-481035/3-A
Matrix: Water
Analysis Batch: 481145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.245		mg/L		98	90 - 110		

Lab Sample ID: LCSD 480-481035/22-A
Matrix: Water
Analysis Batch: 481145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total			0.250	0.241		mg/L		96	90 - 110	2	15

Lab Sample ID: 480-154821-1 DU
Matrix: Leachate
Analysis Batch: 481145

Client Sample ID: 8ALC
Prep Type: Total/NA
Prep Batch: 481035

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.012			0.0107		mg/L				11	15

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-481256/68
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 18:24	1

Lab Sample ID: LCS 480-481256/67
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.8		mg/L		96	90 - 110		

Lab Sample ID: MB 480-481426/32
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 14:29	1

Lab Sample ID: MB 480-481426/63
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:04	1

Lab Sample ID: LCS 480-481426/31
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.9		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-481426/62
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: 480-154821-1 MS
Matrix: Leachate
Analysis Batch: 481426

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	ND	U *	mg/L		0.06	60 - 128		

Lab Sample ID: 480-154821-1 MSD
Matrix: Leachate
Analysis Batch: 481426

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		-0.06	60 - 128	1	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-154821-3 MS
Matrix: Leachate
Analysis Batch: 481426

Client Sample ID: 8CLC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	ND	U *	mg/L		3	60 - 128		

Lab Sample ID: 480-154821-3 MSD
Matrix: Leachate
Analysis Batch: 481426

Client Sample ID: 8CLC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		0.4	60 - 128	22	20

Method: 9251 - Chloride

Lab Sample ID: MB 480-481390/12
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 13:55	1

Lab Sample ID: MB 480-481390/29
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 13:58	1

Lab Sample ID: MB 480-481390/40
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:06	1

Lab Sample ID: LCS 480-481390/13
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.5		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-481390/30
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.0		mg/L		100	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-481390/41
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-478270/1
Matrix: Water
Analysis Batch: 478270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0	mg/L			06/18/19 08:12	1

Lab Sample ID: LCS 480-478270/2
Matrix: Water
Analysis Batch: 478270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	499		mg/L		100	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-478280/1
Matrix: Water
Analysis Batch: 478280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/18/19 08:45	1

Lab Sample ID: LCS 480-478280/2
Matrix: Water
Analysis Batch: 478280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	270	252		mg/L		93	88 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481026/27
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			07/06/19 02:18	1

Lab Sample ID: MB 480-481026/4
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			07/05/19 20:17	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-481026/28
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.4		mg/L		99	90 - 110

Lab Sample ID: LCS 480-481026/5
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.4		mg/L		97	90 - 110

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

GC/MS VOA

Analysis Batch: 477714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	8260C	
480-154821-2	8BLC	Total/NA	Leachate	8260C	
480-154821-3	8CLC	Total/NA	Leachate	8260C	
480-154821-4	TB	Total/NA	WQ	8260C	
MB 480-477714/7	Method Blank	Total/NA	Water	8260C	
LCS 480-477714/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 477897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	3510C	
480-154821-2	8BLC	Total/NA	Leachate	3510C	
480-154821-3	8CLC	Total/NA	Leachate	3510C	
MB 480-477897/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-477897/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 478886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477897/1-A	Method Blank	Total/NA	Water	8270D	477897
LCS 480-477897/2-A	Lab Control Sample	Total/NA	Water	8270D	477897

Analysis Batch: 479041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	8270D	477897
480-154821-2	8BLC	Total/NA	Leachate	8270D	477897
480-154821-3	8CLC	Total/NA	Leachate	8270D	477897

Metals

Prep Batch: 477677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	3005A	
480-154821-2	8BLC	Total/NA	Leachate	3005A	
480-154821-3	8CLC	Total/NA	Leachate	3005A	
MB 480-477677/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 477813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	7470A	
480-154821-3	8CLC	Total/NA	Leachate	7470A	
MB 480-477813/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-477813/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 477814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	7470A	
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Metals

Analysis Batch: 477900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	7470A	477813
480-154821-2	8BLC	Total/NA	Leachate	7470A	477814
480-154821-3	8CLC	Total/NA	Leachate	7470A	477813
MB 480-477813/1-A	Method Blank	Total/NA	Water	7470A	477813
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	477814
LCS 480-477813/2-A	Lab Control Sample	Total/NA	Water	7470A	477813
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	477814

Analysis Batch: 479249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	6010C	477677
480-154821-2	8BLC	Total/NA	Leachate	6010C	477677
480-154821-3	8CLC	Total/NA	Leachate	6010C	477677
MB 480-477677/1-A	Method Blank	Total/NA	Water	6010C	477677
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	6010C	477677

Analysis Batch: 479425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	6010C	477677
480-154821-2	8BLC	Total/NA	Leachate	6010C	477677
480-154821-3	8CLC	Total/NA	Leachate	6010C	477677
480-154821-3	8CLC	Total/NA	Leachate	6010C	477677

General Chemistry

Analysis Batch: 477727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-3	8CLC	Total/NA	Leachate	353.2	

Analysis Batch: 477728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	353.2	
480-154821-2	8BLC	Total/NA	Leachate	353.2	

Analysis Batch: 478270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	SM 2540C	
480-154821-2	8BLC	Total/NA	Leachate	SM 2540C	
480-154821-3	8CLC	Total/NA	Leachate	SM 2540C	
MB 480-478270/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478270/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	SM 2540D	
480-154821-2	8BLC	Total/NA	Leachate	SM 2540D	
480-154821-3	8CLC	Total/NA	Leachate	SM 2540D	
MB 480-478280/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478280/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Prep Batch: 479318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	9012B	
480-154821-3	8CLC	Total/NA	Leachate	9012B	
MB 480-479318/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-479318/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-154821-3 MS	8CLC	Total/NA	Leachate	9012B	

Analysis Batch: 479499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	410.4	
MB 480-479499/3	Method Blank	Total/NA	Water	410.4	
LCS 480-479499/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 479511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	9012B	479318
480-154821-3	8CLC	Total/NA	Leachate	9012B	479318
MB 480-479318/1-A	Method Blank	Total/NA	Water	9012B	479318
LCS 480-479318/2-A	Lab Control Sample	Total/NA	Water	9012B	479318
480-154821-3 MS	8CLC	Total/NA	Leachate	9012B	479318

Analysis Batch: 479741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	310.2	
480-154821-3	8CLC	Total/NA	Leachate	310.2	
MB 480-479741/12	Method Blank	Total/NA	Water	310.2	
MB 480-479741/24	Method Blank	Total/NA	Water	310.2	
MB 480-479741/32	Method Blank	Total/NA	Water	310.2	
MB 480-479741/39	Method Blank	Total/NA	Water	310.2	
LCS 480-479741/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/25	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/33	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/40	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	410.4	
480-154821-3	8CLC	Total/NA	Leachate	410.4	
MB 480-479947/3	Method Blank	Total/NA	Water	410.4	
MB 480-479947/51	Method Blank	Total/NA	Water	410.4	
LCS 480-479947/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-479947/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 480112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	310.2	
MB 480-480112/101	Method Blank	Total/NA	Water	310.2	
MB 480-480112/35	Method Blank	Total/NA	Water	310.2	
MB 480-480112/53	Method Blank	Total/NA	Water	310.2	
LCS 480-480112/102	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-480112/36	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-480112/54	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry

Analysis Batch: 480632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	SM 5210B	
480-154821-2	8BLC	Total/NA	Leachate	SM 5210B	
480-154821-3	8CLC	Total/NA	Leachate	SM 5210B	

Analysis Batch: 481026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	SM 5310C	
480-154821-2	8BLC	Total/NA	Leachate	SM 5310C	
480-154821-3	8CLC	Total/NA	Leachate	SM 5310C	
MB 480-481026/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-481026/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481026/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-481026/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 481035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	9012B	
MB 480-481035/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-481035/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-481035/3-A	Lab Control Sample	Total/NA	Water	9012B	
LCSD 480-481035/22-A	Lab Control Sample Dup	Total/NA	Water	9012B	
480-154821-1 DU	8ALC	Total/NA	Leachate	9012B	

Analysis Batch: 481145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	9012B	481035
MB 480-481035/1-A	Method Blank	Total/NA	Water	9012B	481035
LCS 480-481035/2-A	Lab Control Sample	Total/NA	Water	9012B	481035
LCS 480-481035/3-A	Lab Control Sample	Total/NA	Water	9012B	481035
LCSD 480-481035/22-A	Lab Control Sample Dup	Total/NA	Water	9012B	481035
480-154821-1 DU	8ALC	Total/NA	Leachate	9012B	481035

Analysis Batch: 481256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-2	8BLC	Total/NA	Leachate	9038	
MB 480-481256/68	Method Blank	Total/NA	Water	9038	
LCS 480-481256/67	Lab Control Sample	Total/NA	Water	9038	

Prep Batch: 481286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	Distill/Ammonia	
480-154821-2	8BLC	Total/NA	Leachate	Distill/Ammonia	
480-154821-3	8CLC	Total/NA	Leachate	Distill/Ammonia	
MB 480-481286/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481286/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 481345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	350.1	481286
480-154821-2	8BLC	Total/NA	Leachate	350.1	481286
480-154821-3	8CLC	Total/NA	Leachate	350.1	481286

General Chemistry (Continued)

Analysis Batch: 481345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-481286/1-A	Method Blank	Total/NA	Water	350.1	481286
LCS 480-481286/2-A	Lab Control Sample	Total/NA	Water	350.1	481286

Analysis Batch: 481390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	9251	
480-154821-2	8BLC	Total/NA	Leachate	9251	
480-154821-3	8CLC	Total/NA	Leachate	9251	
MB 480-481390/12	Method Blank	Total/NA	Water	9251	
MB 480-481390/29	Method Blank	Total/NA	Water	9251	
MB 480-481390/40	Method Blank	Total/NA	Water	9251	
LCS 480-481390/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/30	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/41	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	9038	
480-154821-3	8CLC	Total/NA	Leachate	9038	
MB 480-481426/32	Method Blank	Total/NA	Water	9038	
MB 480-481426/63	Method Blank	Total/NA	Water	9038	
LCS 480-481426/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/62	Lab Control Sample	Total/NA	Water	9038	
480-154821-1 MS	8ALC	Total/NA	Leachate	9038	
480-154821-1 MSD	8ALC	Total/NA	Leachate	9038	
480-154821-3 MS	8CLC	Total/NA	Leachate	9038	
480-154821-3 MSD	8CLC	Total/NA	Leachate	9038	

Field Service / Mobile Lab

Analysis Batch: 477670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154821-1	8ALC	Total/NA	Leachate	Field Sampling	
480-154821-2	8BLC	Total/NA	Leachate	Field Sampling	
480-154821-3	8CLC	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8ALC

Date Collected: 06/12/19 12:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-1

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	477714	06/14/19 00:48	RJF	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		20	479041	06/21/19 18:23	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 23:14	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		5	479425	06/25/19 00:37	EMB	TAL BUF
Total/NA	Prep	7470A			477813	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:28	BMB	TAL BUF
Total/NA	Analysis	310.2		45	480112	06/27/19 18:42	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481286	07/09/19 10:30	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481345	07/09/19 14:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477728	06/13/19 19:30	SMH	TAL BUF
Total/NA	Analysis	410.4		10	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Prep	9012B			481035	07/07/19 13:21	AJL	TAL BUF
Total/NA	Analysis	9012B		1	481145	07/08/19 11:57	MDL	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 14:14	KEB	TAL BUF
Total/NA	Analysis	9251		100	481390	07/09/19 14:08	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478270	06/18/19 08:12	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478280	06/18/19 08:45	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480632	07/18/19 07:26	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/05/19 21:30	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477670	06/12/19 12:15	FLD	TAL BUF

Client Sample ID: 8BLC

Date Collected: 06/12/19 14:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-2

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	477714	06/14/19 01:12	RJF	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		5	479041	06/21/19 18:51	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 23:10	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		5	479425	06/25/19 00:29	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:33	BMB	TAL BUF
Total/NA	Analysis	310.2		300	479741	06/26/19 11:06	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481286	07/09/19 10:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481345	07/09/19 14:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477728	06/13/19 19:31	SMH	TAL BUF
Total/NA	Analysis	410.4		20	479947	06/27/19 10:27	EAG	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Client Sample ID: 8BLC

Lab Sample ID: 480-154821-2

Date Collected: 06/12/19 14:10

Matrix: Leachate

Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			479318	06/24/19 13:28	AJL	TAL BUF
Total/NA	Analysis	9012B		1	479511	06/25/19 13:01	MDL	TAL BUF
Total/NA	Analysis	9038		1	481256	07/08/19 19:01	KEB	TAL BUF
Total/NA	Analysis	9251		100	481390	07/09/19 14:08	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478270	06/18/19 08:12	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478280	06/18/19 08:45	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480632	07/18/19 08:28	CTB	KAT
Total/NA	Analysis	SM 5310C		10	481026	07/06/19 04:32	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477670	06/12/19 14:10	FLD	TAL BUF

Client Sample ID: 8CLC

Lab Sample ID: 480-154821-3

Date Collected: 06/12/19 14:30

Matrix: Leachate

Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	477714	06/14/19 01:36	RJF	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		5	479041	06/21/19 19:19	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 23:18	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479425	06/25/19 00:41	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		5	479425	06/25/19 00:44	EMB	TAL BUF
Total/NA	Prep	7470A			477813	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:30	BMB	TAL BUF
Total/NA	Analysis	310.2		300	479741	06/26/19 11:14	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481286	07/09/19 10:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481345	07/09/19 14:14	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477727	06/13/19 21:38	SMH	TAL BUF
Total/NA	Analysis	410.4		20	479947	06/27/19 10:27	EAG	TAL BUF
Total/NA	Prep	9012B			479318	06/24/19 13:28	AJL	TAL BUF
Total/NA	Analysis	9012B		1	479511	06/25/19 13:02	MDL	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 14:14	KEB	TAL BUF
Total/NA	Analysis	9251		50	481390	07/09/19 14:08	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478270	06/18/19 08:12	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478280	06/18/19 08:45	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480632	07/18/19 08:41	CTB	KAT
Total/NA	Analysis	SM 5310C		10	481026	07/06/19 05:17	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477670	06/12/19 14:30	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

Client Sample ID: TB
Lab Sample ID: 480-154821-4
Date Collected: 06/12/19 00:00
Matrix: WQ
Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477714	06/14/19 02:01	RJF	TAL BUF

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-20
California	State		2931	04-01-20
California	State Program	9	2931	04-01-20
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-20
Florida	NELAP		E87672	06-21-20
Georgia	State Program	4	10026 (NY)	03-31-20
Georgia	State Program	4	956	03-31-20
Illinois	NELAP	5	200003	09-30-19
Iowa	State Program	7	374	02-28-21
Kansas	NELAP	7	E-10187	01-31-20
Kentucky (DW)	State Program	4	90029	12-31-19
Kentucky (WW)	State Program	4	90029	12-31-19
Louisiana	NELAP	6	02031	06-30-20
Maryland	State Program	3	294	03-31-20
Massachusetts	State Program	1	M-NY044	06-30-20
Michigan	State Program	5	9937	03-31-20
Minnesota	NELAP	5	036-999-337	12-31-19
New Hampshire	NELAP	1	2337	11-17-19
New Jersey	NELAP	2	NY455	06-30-20
New Jersey	NELAP		NY455	06-25-20
New York	NELAP	2	10026	03-31-20
New York	NELAP		10026	04-01-20
North Dakota	State Program	8	R-176	03-31-20
Oklahoma	State		9421	08-31-19
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-20
Oregon	NELAP		NY200003	06-10-20
Pennsylvania	NELAP	3	68-00281	07-31-19 *
Pennsylvania	NELAP		68-00281	07-31-19
Rhode Island	State Program	1	LAO00328	12-30-19
Tennessee	State Program	4	TN02970	03-31-20
Texas	NELAP	6	T104704412-15-6	07-31-19 *
Texas	NELAP		T104704412-18-10	07-31-19
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-20
Wisconsin	State Program	5	998310390	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Leachate -3pts

Job ID: 480-154821-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154821-1	8ALC	Leachate	06/12/19 12:15	06/13/19 09:00	
480-154821-2	8BLC	Leachate	06/12/19 14:10	06/13/19 09:00	
480-154821-3	8CLC	Leachate	06/12/19 14:30	06/13/19 09:00	
480-154821-4	TB	WQ	06/12/19 00:00	06/13/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-154821-1
Project/Site: Crossroads ME-Ann Leachate -3pts

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8270D	Benzyl alcohol	Leachate	Total/NA	ug/L	10	20
8270D	Dibenzofuran	Leachate	Total/NA	ug/L	5.0	10
6010C	Aluminum	Leachate	Total/NA	mg/L	0.080	0.20
6010C	Antimony	Leachate	Total/NA	mg/L	0.015	0.02
6010C	Arsenic	Leachate	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Leachate	Total/NA	mg/L	0.15	0.50
6010C	Iron	Leachate	Total/NA	mg/L	0.030	0.05
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Selenium	Leachate	Total/NA	mg/L	0.010	0.025
6010C	Sodium	Leachate	Total/NA	mg/L	0.40	1.0
9251	Chloride	Leachate	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Leachate	Total/NA	mg/L	5.0	10

June 21, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5886
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/21/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-1
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8ALC	AQ	12-JUN-19 12:15:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	120 mg/L	57.	6.6	SM 5210B	WG254942	18-JUN-19 07:26:00	SM 5210B	13-JUN-19 956	BR		

Katahdin Analytical Services SM5886 page 0000003 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-2
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8BLC	AQ	12-JUN-19 14:10:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	220 mg/L	100	12.	SM 5210B	WG254942	18-JUN-19 08:28:00	SM 5210B	13-JUN-19 1025	BR		

Katahdin Analytical Services SM5886 page 0000004 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-3
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
8CLC	AQ	12-JUN-19 14:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	260 mg/L	170	20.	SM 5210B	WG254942	18-JUN-19 08:41:00	SM 5210B	13-JUN-19 1036	BR		

Katahdin Analytical Services SM5886 page 0000005 of 0000011

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5886-4
Report Date: 20-JUN-19
Client PO:
Project: Waste Management - Crossroads
SDG: SM5886

Sample Description	Matrix	Date Sampled	Date Received
12ABLC	AQ	12-JUN-19 13:45:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	120 mg/L	57.	6.6	SM 5210B	WG254942	18-JUN-19 09:10:00	SM 5210B	13-JUN-19 1110	BR		

Katahdin Analytical Services SM5886 page 0000006 of 0000011

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG254942	SM 5210B	18-JUN-19	13-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG254942-2	LCS	WG254942	18-JUN-19	13-JUN-19	mg/L	198	220	109	85-115	

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Crossroads	KAS PM: GN	Sampled By: KA	
Project:	KIMS Entry By: JCB	Delivered By: KA	
KAS Work Order#: SM5886	KIMS Review By:	Received By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/12/19 1920	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): 4.2°C
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):	Address:		
Sampler (Print/Sign): Katrina Aman, Nick Adams/ KA			Copies To:

LAB USE ONLY Work Order #: **SM 5886**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	8ALC	6/12/2019 1215	AQ	1	1										
	8BLC	6/12/2019 1410	AQ	1	1										
	8CLC	6/12/2019 1430	AQ	1	1										
	12ABLC	6/12/2019 1345	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Katrina Aman KA	6/13/19 0810	JCB			
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 13, 2019
04:10 PM

Login Number: SM5886

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	4.2
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5886-1	8ALC	12-JUN-19 12:15	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-2	8BLC	12-JUN-19 14:10	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-3	8CLC	12-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

SM5886-4	12ABLC	12-JUN-19 13:45	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Total Samples: *4* ***Total Analyses:*** *4*

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS/ AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128057-22890.1
Client Contact: Sherwood McKenney	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate (3 points) (4)	Project #: 48003284			
Site: Maine	SSOW#:			

480-154821 Chain of Custody

I - Ice, J - DI Water, K - EDTA, L - EDA, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Appendix I Volatiles	8270D - Semi-volatiles	350.1, 410.4	6010C, 7470A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9012B - Cyanide, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitr	310.2 - Alkalinity, Total		Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	S	D	A	N	N	N	N	B	N	N			
TB				Water			1	2												1	
8ALC	6/12/17	1215	G	Water	N	N	3	2	1	1	2	0	1	1	X	1	2	1		15	*BOD was subbed to Katahdin.
~~8BLC~~				Water																	
~~8CLC~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Adams	6/12/19 1800	KAS	Wallace	6/13/19 0900	TAS
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.3

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128057-22890.1
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate (3 points) (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Appendix I Volatiles	8270D - Semi-volatiles	350.1, 410.4	6010C, 7470A	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9012B - Cyanide, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total		Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	D	A	N	N	N	N	B	N	N			
TB				Water			1													1	
~~8ALC~~				Water																	
8BLC	6/12/19	1410	G	Water	N	N	3	2	1	1	2	0	1	1	X	1	2	1		15	* BOD's were
8CLC	↓	1430	G	Water	N	N	3	2	1	1	2	0	1	1	X	1	2	1		15	subbed to Katahdin

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	6/12/19 1800	KAS	[signature]	6/13/19 0900	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.5

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8ALC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 12 19	7 60	1 7 3 7 4	2 6 4	2 1 8	2 9	6 4 4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Strong Color: Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	Katrina Aman		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: crossroads

Site No.:

Sample Point: 8BLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

~~Groundwater~~ Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/12/19	7.79	2517	27.5	83	1.6	191	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Strong Color: DK Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8CLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 12 19	7.81	1827.6	26.9	35.5	3.2	285	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: Strong Color: Dk Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154821-1

Login Number: 154821
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154852-1
Client Project/Site: Crossroads ME-Ann Underdrain
Sampling Event: Annual Underdrain Leak Detection (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
7/31/2019 3:30:02 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154852-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154852-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2019 9:00 AM and 6/14/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8º C and 3.2º C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 12LD (480-154852-3) and 10ABLD (480-154852-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: 9ABCLD (480-154852-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 11ABCLD (480-154852-2), 12LD (480-154852-3) and 10ABLD (480-154852-4). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Total Manganese results reported for the following sample do not concur with results previously reported for this site: 45SD (480-154927-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-479249 contained Total Chromium and Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed. (LCS 480-477677/2-A) and (MB 480-477677/1-A)

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-479249 contained Total Zinc above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 11ABCLD (480-154852-2), 12LD (480-154852-3), 10ABLD (480-154852-4), 7LD (480-154852-5) and 9ABCLD (480-154852-6) was not performed.

Method(s) 6010C: The results reported for Total Iron for the following sample do not concur with results previously reported for this site: 12LD (480-154852-3). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The results reported for Total Iron and Manganese for the following sample do not concur with results previously reported for this site: 7LD (480-154852-5). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The results reported for Total Cobalt and Iron for the following sample do not concur with results previously reported for this site: 9ABCLD (480-154852-6). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 11ABCLD (480-154852-2), 12LD (480-154852-3), 7LD (480-154852-5) and 9ABCLD (480-154852-6). The reporting limits (RLs) have

Job ID: 480-154852-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

been adjusted proportionately.

Method(s) SM 2540C: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: 10ABLD (480-154852-4). The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. Reanalysis was performed outside of holding time resulting in an over residue limit once again. Therefore, the original data have been qualified and reported..

Method(s) 353.2: The results reported for the following samples do not concur with results previously reported for this site: 12ABLD (480-154852-1), 12LD (480-154852-3), 10ABLD (480-154852-4), 7LD (480-154852-5) and 9ABCLD (480-154852-6). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 5310C: The results reported for the following sample do not concur with results previously reported for this site: 10ABLD (480-154852-4). Reanalysis was performed, and the result(s) confirmed.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 12LD (480-154852-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12ABLD — Lab Sample ID: 480-154852-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0050		mg/L	1		6010C	Total/NA
Calcium	97		0.15		mg/L	1		6010C	Total/NA
Iron	0.039		0.030		mg/L	1		6010C	Total/NA
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Manganese	0.013		0.010		mg/L	1		6010C	Total/NA
Potassium	7.3		1.0		mg/L	1		6010C	Total/NA
Sodium	96		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	330		40		mg/L	4		310.2	Total/NA
Nitrate	1.2		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	23		10		mg/L	1		410.4	Total/NA
Sulfate	160		25		mg/L	5		9038	Total/NA
Chloride	8.0		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	620		10		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.1				NTU	1		Field Sampling	Total/NA
Temperature	20.6				Degrees C	1		Field Sampling	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA
Specific Conductance	1061				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	28.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.8				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 11ABCLD — Lab Sample ID: 480-154852-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.014		0.0090		mg/L	1		6010C	Total/NA
Barium	0.036		0.0050		mg/L	1		6010C	Total/NA
Calcium	88		0.15		mg/L	1		6010C	Total/NA
Copper	0.24		0.025		mg/L	1		6010C	Total/NA
Iron	1.6		0.030		mg/L	1		6010C	Total/NA
Lead	0.042		0.0050		mg/L	1		6010C	Total/NA
Magnesium	11		0.24		mg/L	1		6010C	Total/NA
Manganese	0.89		0.010		mg/L	1		6010C	Total/NA
Potassium	12		1.0		mg/L	1		6010C	Total/NA
Sodium	210		0.40		mg/L	1		6010C	Total/NA
Zinc	0.85		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	370		40		mg/L	4		310.2	Total/NA
Ammonia as N	3.3		0.40		mg/L as N	2		350.1	Total/NA
Nitrate	5.2		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	39		10		mg/L	1		410.4	Total/NA
Sulfate	320		50		mg/L	10		9038	Total/NA
Chloride	33		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.6		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	11		5.1		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	4.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	14.8				NTU	1		Field Sampling	Total/NA
Temperature	21.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Specific Conductance	1708				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	93.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.2				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12LD — Lab Sample ID: 480-154852-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.21		0.0090		mg/L	1		6010C	Total/NA
Barium	0.30		0.0050		mg/L	1		6010C	Total/NA
Calcium	190		0.15		mg/L	1		6010C	Total/NA
Cobalt	0.0045		0.0040		mg/L	1		6010C	Total/NA
Iron	28		0.030		mg/L	1		6010C	Total/NA
Magnesium	110		0.24		mg/L	1		6010C	Total/NA
Manganese	6.1		0.010		mg/L	1		6010C	Total/NA
Potassium	34		1.0		mg/L	1		6010C	Total/NA
Sodium	200		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	680		80		mg/L	8		310.2	Total/NA
Ammonia as N	44		10		mg/L as N	10		350.1	Total/NA
Nitrate	0.37		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	120		10		mg/L	1		410.4	Total/NA
Chloride	610		7.5		mg/L	15		9251	Total/NA
Total Dissolved Solids	1800		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	70		4.0		mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	12		10		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	32		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	28.4				NTU	1		Field Sampling	Total/NA
Temperature	18.9				Degrees C	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Specific Conductance	3171				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	128.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 10ABLD — Lab Sample ID: 480-154852-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.13		0.0050		mg/L	1		6010C	Total/NA
Calcium	450		0.15		mg/L	1		6010C	Total/NA
Cobalt	0.012		0.0040		mg/L	1		6010C	Total/NA
Copper	0.065		0.025		mg/L	1		6010C	Total/NA
Iron	1.1		0.030		mg/L	1		6010C	Total/NA
Lead	0.0082		0.0050		mg/L	1		6010C	Total/NA
Magnesium	61		0.24		mg/L	1		6010C	Total/NA
Manganese	0.85		0.010		mg/L	1		6010C	Total/NA
Nickel	0.11		0.040		mg/L	1		6010C	Total/NA
Potassium	360		1.0		mg/L	1		6010C	Total/NA
Sodium	890		0.40		mg/L	1		6010C	Total/NA
Zinc	0.18		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	210		40		mg/L	4		310.2	Total/NA
Ammonia as N	150		20		mg/L as N	100		350.1	Total/NA
Nitrate	63		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	61		10		mg/L	1		410.4	Total/NA
Sulfate	600		130		mg/L	25		9038	Total/NA
Chloride	2200		25		mg/L	50		9251	Total/NA
Total Dissolved Solids	5400		5.0		mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	17		8.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	15		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	6.6				NTU	1		Field Sampling	Total/NA
Temperature	18.9				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 10ABLD (Continued) — Lab Sample ID: 480-154852-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Field pH	7.05				SU	1		Field Sampling	Total/NA
Specific Conductance	8978				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	85.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 7LD — Lab Sample ID: 480-154852-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.065		0.0050		mg/L	1		6010C	Total/NA
Calcium	190		0.15		mg/L	1		6010C	Total/NA
Chromium	0.066		0.010		mg/L	1		6010C	Total/NA
Iron	1.2		0.030		mg/L	1		6010C	Total/NA
Magnesium	20		0.24		mg/L	1		6010C	Total/NA
Manganese	0.18		0.010		mg/L	1		6010C	Total/NA
Potassium	64		1.0		mg/L	1		6010C	Total/NA
Sodium	250		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	300		40		mg/L	4		310.2	Total/NA
Ammonia as N	0.62		0.20		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	37		10		mg/L	1		410.4	Total/NA
Sulfate	150		50		mg/L	10		9038	Total/NA
Chloride	500		10		mg/L	20		9251	Total/NA
Total Dissolved Solids	1600		20		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	10		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	11.9				NTU	1		Field Sampling	Total/NA
Temperature	23.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Specific Conductance	2526				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	72.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 9ABCLD — Lab Sample ID: 480-154852-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.092		0.0050		mg/L	1		6010C	Total/NA
Calcium	110		0.15		mg/L	1		6010C	Total/NA
Cobalt	0.0062		0.0040		mg/L	1		6010C	Total/NA
Copper	0.068		0.025		mg/L	1		6010C	Total/NA
Iron	0.30		0.030		mg/L	1		6010C	Total/NA
Lead	0.014		0.0050		mg/L	1		6010C	Total/NA
Magnesium	14		0.24		mg/L	1		6010C	Total/NA
Manganese	0.57		0.010		mg/L	1		6010C	Total/NA
Nickel	0.046		0.040		mg/L	1		6010C	Total/NA
Potassium	63		1.0		mg/L	1		6010C	Total/NA
Sodium	320		0.40		mg/L	1		6010C	Total/NA
Zinc	0.20		0.020		mg/L	1		6010C	Total/NA
Alkalinity, Total	450		60		mg/L	6		310.2	Total/NA
Ammonia as N	9.7		2.0		mg/L as N	10		350.1	Total/NA
Nitrate	23		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	48		10		mg/L	1		410.4	Total/NA
Sulfate	190		50		mg/L	10		9038	Total/NA
Chloride	320		5.0		mg/L	10		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 9ABCLD (Continued) — Lab Sample ID: 480-154852-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1500		20		mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	5.9		5.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	6.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.6				NTU	1		Field Sampling	Total/NA
Temperature	24.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Specific Conductance	2475				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	88.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-154852-7

No Detections.

Client Sample ID: 45SD — Lab Sample ID: 480-154927-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	3.4		2.0		ug/L	1		8260C	Total/NA
Barium	0.053		0.0050		mg/L	1		6010C	Total/NA
Calcium	80		0.15		mg/L	1		6010C	Total/NA
Iron	0.50		0.030		mg/L	1		6010C	Total/NA
Magnesium	29		0.24		mg/L	1		6010C	Total/NA
Manganese	0.56		0.010		mg/L	1		6010C	Total/NA
Potassium	6.5		1.0		mg/L	1		6010C	Total/NA
Sodium	17		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	220		30		mg/L	3		310.2	Total/NA
Ammonia as N	0.39		0.20		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	33		10		mg/L	1		410.4	Total/NA
Sulfate	56		10		mg/L	2		9038	Total/NA
Chloride	51		1.0		mg/L	2		9251	Total/NA
Total Dissolved Solids	420		5.0		mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	4.4		3.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	4.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	5.8				NTU	1		Field Sampling	Total/NA
Temperature	13.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.47				SU	1		Field Sampling	Total/NA
Specific Conductance	661				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	210.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-154927-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12ABLD

Date Collected: 06/12/19 15:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:28	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/15/19 19:28	1
2-Hexanone	ND	U	5.0		ug/L			06/15/19 19:28	1
2-Butanone	ND	U	10		ug/L			06/15/19 19:28	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/15/19 19:28	1
Acetone	ND	U	10		ug/L			06/15/19 19:28	1
Benzene	ND	U	1.0		ug/L			06/15/19 19:28	1
Bromodichloromethane	ND	U	1.0		ug/L			06/15/19 19:28	1
Bromoform	ND	U	1.0		ug/L			06/15/19 19:28	1
Bromomethane	ND	U	1.0		ug/L			06/15/19 19:28	1
Carbon disulfide	ND	U	1.0		ug/L			06/15/19 19:28	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/15/19 19:28	1
Chlorobenzene	ND	U	1.0		ug/L			06/15/19 19:28	1
Dibromochloromethane	ND	U	1.0		ug/L			06/15/19 19:28	1
Chloroethane	ND	U	1.0		ug/L			06/15/19 19:28	1
Chloroform	ND	U	1.0		ug/L			06/15/19 19:28	1
Chloromethane	ND	U	1.0		ug/L			06/15/19 19:28	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:28	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 19:28	1
Ethylbenzene	ND	U	1.0		ug/L			06/15/19 19:28	1
Methylene Chloride	ND	U	1.0		ug/L			06/15/19 19:28	1
Styrene	ND	U	1.0		ug/L			06/15/19 19:28	1
Tetrachloroethene	ND	U	1.0		ug/L			06/15/19 19:28	1
Toluene	ND	U	1.0		ug/L			06/15/19 19:28	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:28	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 19:28	1
Trichloroethene	ND	U	1.0		ug/L			06/15/19 19:28	1
Vinyl acetate	ND	U	5.0		ug/L			06/15/19 19:28	1
Vinyl chloride	ND	U	1.0		ug/L			06/15/19 19:28	1
Xylenes, Total	ND	U	2.0		ug/L			06/15/19 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/15/19 19:28*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/15/19 19:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/15/19 19:28*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/15/19 19:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 19:48	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1

Client Sample ID: 12ABLD

Date Collected: 06/12/19 15:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-1

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 19:48	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 19:48	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 19:48	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*46 - 120*	*06/14/19 15:11*	*06/21/19 19:48*	*1*
2-Fluorobiphenyl	*102*		*48 - 120*	*06/14/19 15:11*	*06/21/19 19:48*	*1*
p-Terphenyl-d14	*86*		*59 - 136*	*06/14/19 15:11*	*06/21/19 19:48*	*1*
Phenol-d5	*46*		*22 - 120*	*06/14/19 15:11*	*06/21/19 19:48*	*1*
2-Fluorophenol	*64*		*35 - 120*	*06/14/19 15:11*	*06/21/19 19:48*	*1*
2,4,6-Tribromophenol	*106*		*41 - 120*	*06/14/19 15:11*	*06/21/19 19:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:22	1
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 22:22	1
Barium	**0.055**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:22	1
Calcium	**97**		0.15		mg/L		06/14/19 07:45	06/22/19 22:22	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 22:22	1
Cobalt	ND	U	0.0040		mg/L		06/14/19 07:45	06/22/19 22:22	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 22:22	1
Iron	**0.039**		0.030		mg/L		06/14/19 07:45	06/22/19 22:22	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 22:22	1
Magnesium	**12**		0.24		mg/L		06/14/19 07:45	06/22/19 22:22	1
Manganese	**0.013**		0.010		mg/L		06/14/19 07:45	06/22/19 22:22	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 22:22	1
Potassium	**7.3**		1.0		mg/L		06/14/19 07:45	06/22/19 22:22	1
Sodium	**96**		0.40		mg/L		06/14/19 07:45	06/22/19 22:22	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/25/19 00:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**330**		40		mg/L			06/24/19 17:01	4
Ammonia as N	ND	U	0.20		mg/L as N		07/09/19 13:00	07/09/19 15:50	1
Nitrate	**1.2**		0.050		mg/L as N			06/13/19 21:45	1
Chemical Oxygen Demand	**23**		10		mg/L			06/25/19 11:04	1
Sulfate	**160**		25		mg/L			07/08/19 18:29	5
Chloride	**8.0**		0.50		mg/L			07/09/19 14:55	1
Total Dissolved Solids	**620**		10		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/18/19 09:00	1
Total Organic Carbon	**2.0**		1.0		mg/L			07/06/19 05:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12ABLD

Date Collected: 06/12/19 15:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-1

Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	2.1				NTU			06/12/19 15:15	1
Temperature	20.6				Degrees C			06/12/19 15:15	1
Field pH	7.36				SU			06/12/19 15:15	1
Specific Conductance	1061				umhos/cm			06/12/19 15:15	1
Field EH/ORP	28.8				millivolts			06/12/19 15:15	1
Oxygen, Dissolved	6.8				mg/L			06/12/19 15:15	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 11ABCLD

Date Collected: 06/12/19 15:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-2

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:52	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/15/19 19:52	1
2-Hexanone	ND	U	5.0		ug/L			06/15/19 19:52	1
2-Butanone	ND	U	10		ug/L			06/15/19 19:52	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/15/19 19:52	1
Acetone	ND	U	10		ug/L			06/15/19 19:52	1
Benzene	ND	U	1.0		ug/L			06/15/19 19:52	1
Bromodichloromethane	ND	U	1.0		ug/L			06/15/19 19:52	1
Bromoform	ND	U	1.0		ug/L			06/15/19 19:52	1
Bromomethane	ND	U	1.0		ug/L			06/15/19 19:52	1
Carbon disulfide	ND	U	1.0		ug/L			06/15/19 19:52	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/15/19 19:52	1
Chlorobenzene	ND	U	1.0		ug/L			06/15/19 19:52	1
Dibromochloromethane	ND	U	1.0		ug/L			06/15/19 19:52	1
Chloroethane	ND	U	1.0		ug/L			06/15/19 19:52	1
Chloroform	ND	U	1.0		ug/L			06/15/19 19:52	1
Chloromethane	ND	U	1.0		ug/L			06/15/19 19:52	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:52	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 19:52	1
Ethylbenzene	ND	U	1.0		ug/L			06/15/19 19:52	1
Methylene Chloride	ND	U	1.0		ug/L			06/15/19 19:52	1
Styrene	ND	U	1.0		ug/L			06/15/19 19:52	1
Tetrachloroethene	ND	U	1.0		ug/L			06/15/19 19:52	1
Toluene	ND	U	1.0		ug/L			06/15/19 19:52	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 19:52	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 19:52	1
Trichloroethene	ND	U	1.0		ug/L			06/15/19 19:52	1
Vinyl acetate	ND	U	5.0		ug/L			06/15/19 19:52	1
Vinyl chloride	ND	U	1.0		ug/L			06/15/19 19:52	1
Xylenes, Total	ND	U	2.0		ug/L			06/15/19 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*			*06/15/19 19:52*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*			*06/15/19 19:52*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*			*06/15/19 19:52*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*			*06/15/19 19:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:16	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1

Client Sample ID: 11ABCLD

Date Collected: 06/12/19 15:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-2

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:16	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:16	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:16	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*88*		*46 - 120*	*06/14/19 15:11*	*06/21/19 20:16*	*1*
2-Fluorobiphenyl	*106*		*48 - 120*	*06/14/19 15:11*	*06/21/19 20:16*	*1*
p-Terphenyl-d14	*83*		*59 - 136*	*06/14/19 15:11*	*06/21/19 20:16*	*1*
Phenol-d5	*47*		*22 - 120*	*06/14/19 15:11*	*06/21/19 20:16*	*1*
2-Fluorophenol	*66*		*35 - 120*	*06/14/19 15:11*	*06/21/19 20:16*	*1*
2,4,6-Tribromophenol	*124*	*	*41 - 120*	*06/14/19 15:11*	*06/21/19 20:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:26	1
Arsenic	**0.014**		0.0090		mg/L		06/14/19 07:45	06/22/19 22:26	1
Barium	**0.036**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:26	1
Calcium	**88**		0.15		mg/L		06/14/19 07:45	06/22/19 22:26	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 22:26	1
Cobalt	ND	U	0.0040		mg/L		06/14/19 07:45	06/22/19 22:26	1
Copper	**0.24**		0.025		mg/L		06/14/19 07:45	06/22/19 22:26	1
Iron	**1.6**		0.030		mg/L		06/14/19 07:45	06/22/19 22:26	1
Lead	**0.042**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:26	1
Magnesium	**11**		0.24		mg/L		06/14/19 07:45	06/22/19 22:26	1
Manganese	**0.89**		0.010		mg/L		06/14/19 07:45	06/22/19 22:26	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 22:26	1
Potassium	**12**		1.0		mg/L		06/14/19 07:45	06/22/19 22:26	1
Sodium	**210**		0.40		mg/L		06/14/19 07:45	06/22/19 22:26	1
Zinc	**0.85**		0.020		mg/L		06/14/19 07:45	06/22/19 22:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**370**		40		mg/L			06/24/19 15:58	4
Ammonia as N	**3.3**		0.40		mg/L as N		07/09/19 13:00	07/09/19 15:51	2
Nitrate	**5.2**		0.050		mg/L as N			06/13/19 21:46	1
Chemical Oxygen Demand	**39**		10		mg/L			06/25/19 11:04	1
Sulfate	**320**		50		mg/L			07/08/19 18:18	10
Chloride	**33**		0.50		mg/L			06/24/19 14:11	1
Total Dissolved Solids	**1000**		10		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	**11**		5.1		mg/L			06/18/19 09:06	1
Total Organic Carbon	**4.1**		1.0		mg/L			07/06/19 06:03	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**7.6**		4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 11ABCLD

Date Collected: 06/12/19 15:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-2

Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	14.8				NTU			06/12/19 15:50	1
Temperature	21.0				Degrees C			06/12/19 15:50	1
Field pH	7.39				SU			06/12/19 15:50	1
Specific Conductance	1708				umhos/cm			06/12/19 15:50	1
Field EH/ORP	93.1				millivolts			06/12/19 15:50	1
Oxygen, Dissolved	6.2				mg/L			06/12/19 15:50	1

Client Sample ID: 12LD

Date Collected: 06/12/19 11:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-3

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
1,1,2,2-Tetrachloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
1,1,2-Trichloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
1,1-Dichloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
1,1-Dichloroethene	ND	U	5.0		ug/L			06/17/19 12:31	5
1,2-Dichloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
1,2-Dichloropropane	ND	U	5.0		ug/L			06/17/19 12:31	5
2-Hexanone	ND	U	25		ug/L			06/17/19 12:31	5
2-Butanone	ND	U	50		ug/L			06/17/19 12:31	5
4-Methyl-2-pentanone	ND	U	25		ug/L			06/17/19 12:31	5
Acetone	ND	U	50		ug/L			06/17/19 12:31	5
Benzene	ND	U	5.0		ug/L			06/17/19 12:31	5
Bromodichloromethane	ND	U	5.0		ug/L			06/17/19 12:31	5
Bromoform	ND	U	5.0		ug/L			06/17/19 12:31	5
Bromomethane	ND	U	5.0		ug/L			06/17/19 12:31	5
Carbon disulfide	ND	U	5.0		ug/L			06/17/19 12:31	5
Carbon tetrachloride	ND	U	5.0		ug/L			06/17/19 12:31	5
Chlorobenzene	ND	U	5.0		ug/L			06/17/19 12:31	5
Dibromochloromethane	ND	U	5.0		ug/L			06/17/19 12:31	5
Chloroethane	ND	U	5.0		ug/L			06/17/19 12:31	5
Chloroform	ND	U	5.0		ug/L			06/17/19 12:31	5
Chloromethane	ND	U	5.0		ug/L			06/17/19 12:31	5
cis-1,2-Dichloroethene	ND	U	5.0		ug/L			06/17/19 12:31	5
cis-1,3-Dichloropropene	ND	U	5.0		ug/L			06/17/19 12:31	5
Ethylbenzene	ND	U	5.0		ug/L			06/17/19 12:31	5
Methylene Chloride	ND	U	5.0		ug/L			06/17/19 12:31	5
Styrene	ND	U	5.0		ug/L			06/17/19 12:31	5
Tetrachloroethene	ND	U	5.0		ug/L			06/17/19 12:31	5
Toluene	ND	U	5.0		ug/L			06/17/19 12:31	5
trans-1,2-Dichloroethene	ND	U	5.0		ug/L			06/17/19 12:31	5
trans-1,3-Dichloropropene	ND	U	5.0		ug/L			06/17/19 12:31	5
Trichloroethene	ND	U	5.0		ug/L			06/17/19 12:31	5
Vinyl acetate	ND	U	25		ug/L			06/17/19 12:31	5
Vinyl chloride	ND	U	5.0		ug/L			06/17/19 12:31	5
Xylenes, Total	ND	U	10		ug/L			06/17/19 12:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*77 - 120*		*06/17/19 12:31*	*5*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/17/19 12:31*	*5*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/17/19 12:31*	*5*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*06/17/19 12:31*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:45	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1

Client Sample ID: 12LD

Date Collected: 06/12/19 11:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-3

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:45	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:45	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 20:45	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*93*		*46 - 120*	*06/14/19 15:11*	*06/21/19 20:45*	*1*
2-Fluorobiphenyl	*107*		*48 - 120*	*06/14/19 15:11*	*06/21/19 20:45*	*1*
p-Terphenyl-d14	*78*		*59 - 136*	*06/14/19 15:11*	*06/21/19 20:45*	*1*
Phenol-d5	*49*		*22 - 120*	*06/14/19 15:11*	*06/21/19 20:45*	*1*
2-Fluorophenol	*71*		*35 - 120*	*06/14/19 15:11*	*06/21/19 20:45*	*1*
2,4,6-Tribromophenol	*142*	*	*41 - 120*	*06/14/19 15:11*	*06/21/19 20:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:29	1
Arsenic	**0.21**		0.0090		mg/L		06/14/19 07:45	06/22/19 22:29	1
Barium	**0.30**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:29	1
Calcium	**190**		0.15		mg/L		06/14/19 07:45	06/22/19 22:29	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 22:29	1
Cobalt	**0.0045**		0.0040		mg/L		06/14/19 07:45	06/22/19 22:29	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 22:29	1
Iron	**28**		0.030		mg/L		06/14/19 07:45	06/22/19 22:29	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 22:29	1
Magnesium	**110**		0.24		mg/L		06/14/19 07:45	06/22/19 22:29	1
Manganese	**6.1**		0.010		mg/L		06/14/19 07:45	06/22/19 22:29	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 22:29	1
Potassium	**34**		1.0		mg/L		06/14/19 07:45	06/22/19 22:29	1
Sodium	**200**		0.40		mg/L		06/14/19 07:45	06/22/19 22:29	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 22:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**680**		80		mg/L			06/24/19 16:08	8
Ammonia as N	**44**		10		mg/L as N		07/09/19 13:00	07/09/19 15:52	10
Nitrate	**0.37**		0.050		mg/L as N			06/13/19 21:49	1
Chemical Oxygen Demand	**120**		10		mg/L			06/25/19 11:04	1
Sulfate	ND	U	5.0		mg/L			07/08/19 18:07	1
Chloride	**610**		7.5		mg/L			06/24/19 16:04	15
Total Dissolved Solids	**1800**		10		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	**12**		10		mg/L			06/18/19 07:23	1
Total Organic Carbon	**32**		1.0		mg/L			07/06/19 06:18	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**70**		4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12LD

Date Collected: 06/12/19 11:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-3

Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	28.4				NTU			06/12/19 11:15	1
Temperature	18.9				Degrees C			06/12/19 11:15	1
Field pH	6.65				SU			06/12/19 11:15	1
Specific Conductance	3171				umhos/cm			06/12/19 11:15	1
Field EH/ORP	128.6				millivolts			06/12/19 11:15	1
Oxygen, Dissolved	4.5				mg/L			06/12/19 11:15	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 10ABLD

Date Collected: 06/12/19 16:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-4

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
1,1,2,2-Tetrachloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
1,1,2-Trichloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
1,1-Dichloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
1,1-Dichloroethene	ND	U	2.0		ug/L			06/17/19 12:55	2
1,2-Dichloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
1,2-Dichloropropane	ND	U	2.0		ug/L			06/17/19 12:55	2
2-Hexanone	ND	U	10		ug/L			06/17/19 12:55	2
2-Butanone	ND	U	20		ug/L			06/17/19 12:55	2
4-Methyl-2-pentanone	ND	U	10		ug/L			06/17/19 12:55	2
Acetone	ND	U	20		ug/L			06/17/19 12:55	2
Benzene	ND	U	2.0		ug/L			06/17/19 12:55	2
Bromodichloromethane	ND	U	2.0		ug/L			06/17/19 12:55	2
Bromoform	ND	U	2.0		ug/L			06/17/19 12:55	2
Bromomethane	ND	U	2.0		ug/L			06/17/19 12:55	2
Carbon disulfide	ND	U	2.0		ug/L			06/17/19 12:55	2
Carbon tetrachloride	ND	U	2.0		ug/L			06/17/19 12:55	2
Chlorobenzene	ND	U	2.0		ug/L			06/17/19 12:55	2
Dibromochloromethane	ND	U	2.0		ug/L			06/17/19 12:55	2
Chloroethane	ND	U	2.0		ug/L			06/17/19 12:55	2
Chloroform	ND	U	2.0		ug/L			06/17/19 12:55	2
Chloromethane	ND	U	2.0		ug/L			06/17/19 12:55	2
cis-1,2-Dichloroethene	ND	U	2.0		ug/L			06/17/19 12:55	2
cis-1,3-Dichloropropene	ND	U	2.0		ug/L			06/17/19 12:55	2
Ethylbenzene	ND	U	2.0		ug/L			06/17/19 12:55	2
Methylene Chloride	ND	U	2.0		ug/L			06/17/19 12:55	2
Styrene	ND	U	2.0		ug/L			06/17/19 12:55	2
Tetrachloroethene	ND	U	2.0		ug/L			06/17/19 12:55	2
Toluene	ND	U	2.0		ug/L			06/17/19 12:55	2
trans-1,2-Dichloroethene	ND	U	2.0		ug/L			06/17/19 12:55	2
trans-1,3-Dichloropropene	ND	U	2.0		ug/L			06/17/19 12:55	2
Trichloroethene	ND	U	2.0		ug/L			06/17/19 12:55	2
Vinyl acetate	ND	U	10		ug/L			06/17/19 12:55	2
Vinyl chloride	ND	U	2.0		ug/L			06/17/19 12:55	2
Xylenes, Total	ND	U	4.0		ug/L			06/17/19 12:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*06/17/19 12:55*	*2*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/17/19 12:55*	*2*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/17/19 12:55*	*2*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*06/17/19 12:55*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:13	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1

Client Sample ID: 10ABLD

Date Collected: 06/12/19 16:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-4

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:13	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:13	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:13	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*46 - 120*	*06/14/19 15:11*	*06/21/19 21:13*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*06/14/19 15:11*	*06/21/19 21:13*	*1*
p-Terphenyl-d14	*74*		*59 - 136*	*06/14/19 15:11*	*06/21/19 21:13*	*1*
Phenol-d5	*43*		*22 - 120*	*06/14/19 15:11*	*06/21/19 21:13*	*1*
2-Fluorophenol	*61*		*35 - 120*	*06/14/19 15:11*	*06/21/19 21:13*	*1*
2,4,6-Tribromophenol	*131*	*	*41 - 120*	*06/14/19 15:11*	*06/21/19 21:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:33	1
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 22:33	1
Barium	**0.13**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:33	1
Calcium	**450**		0.15		mg/L		06/14/19 07:45	06/22/19 22:33	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 22:33	1
Cobalt	**0.012**		0.0040		mg/L		06/14/19 07:45	06/22/19 22:33	1
Copper	**0.065**		0.025		mg/L		06/14/19 07:45	06/22/19 22:33	1
Iron	**1.1**		0.030		mg/L		06/14/19 07:45	06/22/19 22:33	1
Lead	**0.0082**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:33	1
Magnesium	**61**		0.24		mg/L		06/14/19 07:45	06/22/19 22:33	1
Manganese	**0.85**		0.010		mg/L		06/14/19 07:45	06/22/19 22:33	1
Nickel	**0.11**		0.040		mg/L		06/14/19 07:45	06/22/19 22:33	1
Potassium	**360**		1.0		mg/L		06/14/19 07:45	06/22/19 22:33	1
Sodium	**890**		0.40		mg/L		06/14/19 07:45	06/22/19 22:33	1
Zinc	**0.18**		0.020		mg/L		06/14/19 07:45	06/22/19 22:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**210**		40		mg/L			06/24/19 16:08	4
Ammonia as N	**150**		20		mg/L as N		07/09/19 13:00	07/09/19 15:53	100
Nitrate	**63**		0.050		mg/L as N			06/13/19 23:57	1
Chemical Oxygen Demand	**61**		10		mg/L			06/25/19 11:04	1
Sulfate	**600**		130		mg/L			07/08/19 18:34	25
Chloride	**2200**		25		mg/L			07/09/19 15:36	50
Total Dissolved Solids	**5400**		5.0		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	**17**		8.0		mg/L			06/18/19 09:17	1
Total Organic Carbon	**15**		1.0		mg/L			07/06/19 06:34	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 10ABLD
Date Collected: 06/12/19 16:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-4
Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	6.6				NTU			06/12/19 16:30	1
Temperature	18.9				Degrees C			06/12/19 16:30	1
Field pH	7.05				SU			06/12/19 16:30	1
Specific Conductance	8978				umhos/cm			06/12/19 16:30	1
Field EH/ORP	85.3				millivolts			06/12/19 16:30	1
Oxygen, Dissolved	6.9				mg/L			06/12/19 16:30	1

Client Sample ID: 7LD

Date Collected: 06/12/19 13:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-5

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:18	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 13:18	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 13:18	1
2-Butanone	ND	U	10		ug/L			06/17/19 13:18	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 13:18	1
Acetone	ND	U	10		ug/L			06/17/19 13:18	1
Benzene	ND	U	1.0		ug/L			06/17/19 13:18	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 13:18	1
Bromoform	ND	U	1.0		ug/L			06/17/19 13:18	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 13:18	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 13:18	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 13:18	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 13:18	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 13:18	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 13:18	1
Chloroform	ND	U	1.0		ug/L			06/17/19 13:18	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 13:18	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:18	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:18	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 13:18	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 13:18	1
Styrene	ND	U	1.0		ug/L			06/17/19 13:18	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 13:18	1
Toluene	ND	U	1.0		ug/L			06/17/19 13:18	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:18	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:18	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 13:18	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 13:18	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 13:18	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/17/19 13:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/17/19 13:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/17/19 13:18*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*06/17/19 13:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:42	1
2-Chlorophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1
2-Nitrophenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1

Client Sample ID: 7LD

Date Collected: 06/12/19 13:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-5

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:42	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:42	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 21:42	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*06/14/19 15:11*	*06/21/19 21:42*	*1*
2-Fluorobiphenyl	*101*		*48 - 120*	*06/14/19 15:11*	*06/21/19 21:42*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*06/14/19 15:11*	*06/21/19 21:42*	*1*
Phenol-d5	*47*		*22 - 120*	*06/14/19 15:11*	*06/21/19 21:42*	*1*
2-Fluorophenol	*68*		*35 - 120*	*06/14/19 15:11*	*06/21/19 21:42*	*1*
2,4,6-Tribromophenol	*113*		*41 - 120*	*06/14/19 15:11*	*06/21/19 21:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:37	1
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 22:37	1
Barium	**0.065**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:37	1
Calcium	**190**		0.15		mg/L		06/14/19 07:45	06/22/19 22:37	1
Chromium	**0.066**		0.010		mg/L		06/14/19 07:45	06/22/19 22:37	1
Cobalt	ND	U	0.0040		mg/L		06/14/19 07:45	06/22/19 22:37	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 22:37	1
Iron	**1.2**		0.030		mg/L		06/14/19 07:45	06/22/19 22:37	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 22:37	1
Magnesium	**20**		0.24		mg/L		06/14/19 07:45	06/22/19 22:37	1
Manganese	**0.18**		0.010		mg/L		06/14/19 07:45	06/22/19 22:37	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 22:37	1
Potassium	**64**		1.0		mg/L		06/14/19 07:45	06/22/19 22:37	1
Sodium	**250**		0.40		mg/L		06/14/19 07:45	06/22/19 22:37	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 22:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**300**		40		mg/L			06/25/19 12:03	4
Ammonia as N	**0.62**		0.20		mg/L as N		07/09/19 13:00	07/09/19 15:47	1
Nitrate	ND	U	0.050		mg/L as N			06/13/19 20:02	1
Chemical Oxygen Demand	**37**		10		mg/L			06/25/19 11:04	1
Sulfate	**150**		50		mg/L			07/08/19 18:18	10
Chloride	**500**		10		mg/L			06/25/19 09:47	20
Total Dissolved Solids	**1600**		20		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/18/19 07:55	1
Total Organic Carbon	**2.3**		1.0		mg/L			07/06/19 06:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**10**		4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 7LD

Date Collected: 06/12/19 13:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-5

Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	11.9				NTU			06/12/19 13:10	1
Temperature	23.2				Degrees C			06/12/19 13:10	1
Field pH	7.17				SU			06/12/19 13:10	1
Specific Conductance	2526				umhos/cm			06/12/19 13:10	1
Field EH/ORP	72.0				millivolts			06/12/19 13:10	1
Oxygen, Dissolved	5.9				mg/L			06/12/19 13:10	1

Client Sample ID: 9ABCLD
Date Collected: 06/12/19 13:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-6
Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:42	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 13:42	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 13:42	1
2-Butanone	ND	U	10		ug/L			06/17/19 13:42	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 13:42	1
Acetone	ND	U	10		ug/L			06/17/19 13:42	1
Benzene	ND	U	1.0		ug/L			06/17/19 13:42	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 13:42	1
Bromoform	ND	U	1.0		ug/L			06/17/19 13:42	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 13:42	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 13:42	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 13:42	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 13:42	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 13:42	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 13:42	1
Chloroform	ND	U	1.0		ug/L			06/17/19 13:42	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 13:42	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:42	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:42	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 13:42	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 13:42	1
Styrene	ND	U	1.0		ug/L			06/17/19 13:42	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 13:42	1
Toluene	ND	U	1.0		ug/L			06/17/19 13:42	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:42	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:42	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 13:42	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 13:42	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 13:42	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*06/17/19 13:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/17/19 13:42*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*06/17/19 13:42*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*06/17/19 13:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10
2,4-Dichlorophenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10
2,4-Dimethylphenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10
2,4-Dinitrophenol	ND	U	500		ug/L		06/14/19 15:11	06/21/19 22:10	10
2-Chlorophenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10
2-Nitrophenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10

Client Sample ID: 9ABCLD

Date Collected: 06/12/19 13:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-6

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	500		ug/L		06/14/19 15:11	06/21/19 22:10	10
4-Chloro-3-methylphenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10
4-Nitrophenol	ND	U	500		ug/L		06/14/19 15:11	06/21/19 22:10	10
Pentachlorophenol	ND	U	500		ug/L		06/14/19 15:11	06/21/19 22:10	10
Phenol	ND	U	100		ug/L		06/14/19 15:11	06/21/19 22:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*46 - 120*	*06/14/19 15:11*	*06/21/19 22:10*	*10*
2-Fluorobiphenyl	*99*		*48 - 120*	*06/14/19 15:11*	*06/21/19 22:10*	*10*
p-Terphenyl-d14	*79*		*59 - 136*	*06/14/19 15:11*	*06/21/19 22:10*	*10*
Phenol-d5	*46*		*22 - 120*	*06/14/19 15:11*	*06/21/19 22:10*	*10*
2-Fluorophenol	*60*		*35 - 120*	*06/14/19 15:11*	*06/21/19 22:10*	*10*
2,4,6-Tribromophenol	*101*		*41 - 120*	*06/14/19 15:11*	*06/21/19 22:10*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 22:52	1
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 22:52	1
Barium	**0.092**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:52	1
Calcium	**110**		0.15		mg/L		06/14/19 07:45	06/22/19 22:52	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 22:52	1
Cobalt	**0.0062**		0.0040		mg/L		06/14/19 07:45	06/22/19 22:52	1
Copper	**0.068**		0.025		mg/L		06/14/19 07:45	06/22/19 22:52	1
Iron	**0.30**		0.030		mg/L		06/14/19 07:45	06/22/19 22:52	1
Lead	**0.014**		0.0050		mg/L		06/14/19 07:45	06/22/19 22:52	1
Magnesium	**14**		0.24		mg/L		06/14/19 07:45	06/22/19 22:52	1
Manganese	**0.57**		0.010		mg/L		06/14/19 07:45	06/22/19 22:52	1
Nickel	**0.046**		0.040		mg/L		06/14/19 07:45	06/22/19 22:52	1
Potassium	**63**		1.0		mg/L		06/14/19 07:45	06/22/19 22:52	1
Sodium	**320**		0.40		mg/L		06/14/19 07:45	06/22/19 22:52	1
Zinc	**0.20**		0.020		mg/L		06/14/19 07:45	06/22/19 22:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**450**		60		mg/L			06/25/19 12:03	6
Ammonia as N	**9.7**		2.0		mg/L as N		07/09/19 13:00	07/09/19 15:49	10
Nitrate	**23**		0.050		mg/L as N			06/13/19 23:59	1
Chemical Oxygen Demand	**48**		10		mg/L			06/25/19 11:04	1
Sulfate	**190**		50		mg/L			07/08/19 18:18	10
Chloride	**320**		5.0		mg/L			06/25/19 13:21	10
Total Dissolved Solids	**1500**		20		mg/L			06/18/19 07:49	1
Biochemical Oxygen Demand	**5.9**		5.0		mg/L			06/18/19 08:00	1
Total Organic Carbon	**6.4**		1.0		mg/L			07/06/19 07:04	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/18/19 10:19	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 9ABCLD
Date Collected: 06/12/19 13:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-6
Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	3.6				NTU			06/12/19 13:50	1
Temperature	24.8				Degrees C			06/12/19 13:50	1
Field pH	7.34				SU			06/12/19 13:50	1
Specific Conductance	2475				umhos/cm			06/12/19 13:50	1
Field EH/ORP	88.6				millivolts			06/12/19 13:50	1
Oxygen, Dissolved	4.9				mg/L			06/12/19 13:50	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-7

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 14:06	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 14:06	1
2-Butanone	ND	U	10		ug/L			06/17/19 14:06	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 14:06	1
Acetone	ND	U	10		ug/L			06/17/19 14:06	1
Benzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromoform	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 14:06	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloroform	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 14:06	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Styrene	ND	U	1.0		ug/L			06/17/19 14:06	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
Toluene	ND	U	1.0		ug/L			06/17/19 14:06	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 14:06	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 14:06	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/17/19 14:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/17/19 14:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/17/19 14:06*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/17/19 14:06*	*1*

Client Sample ID: 45SD

Date Collected: 06/13/19 11:35
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/18/19 14:13	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/18/19 14:13	1
2-Hexanone	ND	U	5.0		ug/L			06/18/19 14:13	1
2-Butanone	ND	U	10		ug/L			06/18/19 14:13	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/18/19 14:13	1
Acetone	ND	U	10		ug/L			06/18/19 14:13	1
Benzene	ND	U	1.0		ug/L			06/18/19 14:13	1
Bromodichloromethane	ND	U	1.0		ug/L			06/18/19 14:13	1
Bromoform	ND	U	1.0		ug/L			06/18/19 14:13	1
Bromomethane	ND	U	1.0		ug/L			06/18/19 14:13	1
Carbon disulfide	ND	U	1.0		ug/L			06/18/19 14:13	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/18/19 14:13	1
Chlorobenzene	ND	U	1.0		ug/L			06/18/19 14:13	1
Dibromochloromethane	ND	U	1.0		ug/L			06/18/19 14:13	1
Chloroethane	ND	U	1.0		ug/L			06/18/19 14:13	1
Chloroform	ND	U	1.0		ug/L			06/18/19 14:13	1
Chloromethane	ND	U	1.0		ug/L			06/18/19 14:13	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/18/19 14:13	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/18/19 14:13	1
Ethylbenzene	ND	U	1.0		ug/L			06/18/19 14:13	1
Methylene Chloride	ND	U	1.0		ug/L			06/18/19 14:13	1
Styrene	ND	U	1.0		ug/L			06/18/19 14:13	1
Tetrachloroethene	ND	U	1.0		ug/L			06/18/19 14:13	1
Toluene	ND	U	1.0		ug/L			06/18/19 14:13	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/18/19 14:13	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/18/19 14:13	1
Trichloroethene	ND	U	1.0		ug/L			06/18/19 14:13	1
Vinyl acetate	ND	U	5.0		ug/L			06/18/19 14:13	1
Vinyl chloride	ND	U	1.0		ug/L			06/18/19 14:13	1
Xylenes, Total	**3.4**		2.0		ug/L			06/18/19 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/18/19 14:13*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/18/19 14:13*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*06/18/19 14:13*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/18/19 14:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/18/19 07:53	06/26/19 18:11	1
2-Chlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1
2-Nitrophenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1

Client Sample ID: 45SD

Date Collected: 06/13/19 11:35
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-1

Matrix: Leachate

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/18/19 07:53	06/26/19 18:11	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1
4-Nitrophenol	ND	U	50		ug/L		06/18/19 07:53	06/26/19 18:11	1
Pentachlorophenol	ND	U	50		ug/L		06/18/19 07:53	06/26/19 18:11	1
Phenol	ND	U	10		ug/L		06/18/19 07:53	06/26/19 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*06/18/19 07:53*	*06/26/19 18:11*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*06/18/19 07:53*	*06/26/19 18:11*	*1*
p-Terphenyl-d14	*67*		*59 - 136*	*06/18/19 07:53*	*06/26/19 18:11*	*1*
Phenol-d5	*45*		*22 - 120*	*06/18/19 07:53*	*06/26/19 18:11*	*1*
2-Fluorophenol	*60*		*35 - 120*	*06/18/19 07:53*	*06/26/19 18:11*	*1*
2,4,6-Tribromophenol	*113*		*41 - 120*	*06/18/19 07:53*	*06/26/19 18:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/18/19 07:04	06/19/19 00:30	1
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/19/19 00:30	1
Barium	**0.053**		0.0050		mg/L		06/18/19 07:04	06/19/19 00:30	1
Calcium	**80**		0.15		mg/L		06/18/19 07:04	06/19/19 00:30	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/19/19 00:30	1
Cobalt	ND	U	0.0040		mg/L		06/18/19 07:04	06/19/19 00:30	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/19/19 00:30	1
Iron	**0.50**		0.030		mg/L		06/18/19 07:04	06/19/19 00:30	1
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/19/19 00:30	1
Magnesium	**29**		0.24		mg/L		06/18/19 07:04	06/19/19 00:30	1
Manganese	**0.56**		0.010		mg/L		06/18/19 07:04	06/19/19 00:30	1
Nickel	ND	U	0.040		mg/L		06/18/19 07:04	06/19/19 00:30	1
Potassium	**6.5**		1.0		mg/L		06/18/19 07:04	06/20/19 10:23	1
Sodium	**17**		0.40		mg/L		06/18/19 07:04	06/20/19 10:23	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/19/19 00:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/19/19 11:40	06/19/19 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**220**		30		mg/L			06/26/19 11:26	3
Ammonia as N	**0.39**		0.20		mg/L as N		07/10/19 13:00	07/11/19 09:02	1
Nitrate	ND	U	0.050		mg/L as N			06/14/19 18:36	1
Chemical Oxygen Demand	**33**		10		mg/L			06/30/19 09:30	1
Sulfate	**56**		10		mg/L			07/09/19 14:29	2
Chloride	**51**		1.0		mg/L			07/09/19 14:50	2
Total Dissolved Solids	**420**		5.0		mg/L			06/19/19 10:48	1
Biochemical Oxygen Demand	**4.4**		3.0		mg/L			06/14/19 09:47	1
Total Organic Carbon	**4.3**		1.0		mg/L			07/07/19 04:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/20/19 10:06	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 45SD
Date Collected: 06/13/19 11:35
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-1
Matrix: Leachate

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	5.8				NTU			06/13/19 11:35	1
Temperature	13.4				Degrees C			06/13/19 11:35	1
Field pH	7.47				SU			06/13/19 11:35	1
Specific Conductance	661				umhos/cm			06/13/19 11:35	1
Field EH/ORP	210.0				millivolts			06/13/19 11:35	1
Oxygen, Dissolved	10.7				mg/L			06/13/19 11:35	1

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: TB

Date Collected: 06/13/19 00:00
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 02:58	1
2-Butanone	ND	U	10		ug/L			06/19/19 02:58	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 02:58	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 02:58	1
Acetone	ND	U	10		ug/L			06/19/19 02:58	1
Benzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromoform	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 02:58	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloroform	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:58	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Styrene	ND	U	1.0		ug/L			06/19/19 02:58	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
Toluene	ND	U	1.0		ug/L			06/19/19 02:58	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:58	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 02:58	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*06/19/19 02:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*06/19/19 02:58*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*06/19/19 02:58*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/19/19 02:58*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-154852-1	12ABLD	104	93	103	103
480-154852-2	11ABCLD	112	96	107	105
480-154852-3	12LD	117	95	99	112
480-154852-4	10ABLD	112	94	101	111
480-154852-5	7LD	108	94	97	106
480-154852-6	9ABCLD	114	98	109	109
480-154927-1	45SD	105	94	82	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154927-2	TB	92	89	93	92
LCS 480-477945/5	Lab Control Sample	100	106	101	98
LCS 480-478042/5	Lab Control Sample	104	102	103	96
LCS 480-478257/5	Lab Control Sample	96	90	92	99
LCS 480-478467/5	Lab Control Sample	96	96	93	94
MB 480-477945/7	Method Blank	115	100	113	95
MB 480-478042/8	Method Blank	109	107	107	95
MB 480-478257/7	Method Blank	104	81	91	90
MB 480-478467/8	Method Blank	96	93	97	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-154852-7	TB	108	95	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Waste Management
Job ID: 480-154852-1
Project/Site: Crossroads ME-Ann Underdrain

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
480-154852-1	12ABLD	87	102	86	46	64	106
480-154852-2	11ABCLD	88	106	83	47	66	124 *
480-154852-3	12LD	93	107	78	49	71	142 *
480-154852-4	10ABLD	80	96	74	43	61	131 *
480-154852-5	7LD	86	101	88	47	68	113
480-154852-6	9ABCLD	73	99	79	46	60	101
480-154927-1	45SD	86	91	67	45	60	113

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
LCS 480-477897/2-A	Lab Control Sample	81	95	105	53	68	118
LCS 480-478248/2-A	Lab Control Sample	87	91	98	58	72	108
MB 480-477897/1-A	Method Blank	74	91	102	41	58	88
MB 480-478248/1-A	Method Blank	73	76	88	39	54	75

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-477945/7
Matrix: Water
Analysis Batch: 477945

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/15/19 12:26	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/15/19 12:26	1
2-Butanone	ND	U	10		ug/L			06/15/19 12:26	1
2-Hexanone	ND	U	5.0		ug/L			06/15/19 12:26	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/15/19 12:26	1
Acetone	ND	U	10		ug/L			06/15/19 12:26	1
Benzene	ND	U	1.0		ug/L			06/15/19 12:26	1
Bromodichloromethane	ND	U	1.0		ug/L			06/15/19 12:26	1
Bromoform	ND	U	1.0		ug/L			06/15/19 12:26	1
Bromomethane	ND	U	1.0		ug/L			06/15/19 12:26	1
Carbon disulfide	ND	U	1.0		ug/L			06/15/19 12:26	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/15/19 12:26	1
Chlorobenzene	ND	U	1.0		ug/L			06/15/19 12:26	1
Chloroethane	ND	U	1.0		ug/L			06/15/19 12:26	1
Chloroform	ND	U	1.0		ug/L			06/15/19 12:26	1
Chloromethane	ND	U	1.0		ug/L			06/15/19 12:26	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 12:26	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 12:26	1
Dibromochloromethane	ND	U	1.0		ug/L			06/15/19 12:26	1
Ethylbenzene	ND	U	1.0		ug/L			06/15/19 12:26	1
Methylene Chloride	ND	U	1.0		ug/L			06/15/19 12:26	1
Styrene	ND	U	1.0		ug/L			06/15/19 12:26	1
Tetrachloroethene	ND	U	1.0		ug/L			06/15/19 12:26	1
Toluene	ND	U	1.0		ug/L			06/15/19 12:26	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/15/19 12:26	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/15/19 12:26	1
Trichloroethene	ND	U	1.0		ug/L			06/15/19 12:26	1
Vinyl acetate	ND	U	5.0		ug/L			06/15/19 12:26	1
Vinyl chloride	ND	U	1.0		ug/L			06/15/19 12:26	1
Xylenes, Total	ND	U	2.0		ug/L			06/15/19 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*06/15/19 12:26*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/15/19 12:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/15/19 12:26*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*06/15/19 12:26*	*1*

Lab Sample ID: LCS 480-477945/5
Matrix: Water
Analysis Batch: 477945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	24.6		ug/L		98	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-477945/5
Matrix: Water
Analysis Batch: 477945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	21.2		ug/L		85	76 - 120
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	20.9		ug/L		83	77 - 120
1,1-Dichloroethene	25.0	19.5		ug/L		78	66 - 127
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	20.2		ug/L		81	76 - 120
2-Butanone	125	95.9		ug/L		77	57 - 140
2-Hexanone	125	118		ug/L		94	65 - 127
4-Methyl-2-pentanone	125	111		ug/L		89	71 - 125
Acetone	125	101		ug/L		80	56 - 142
Benzene	25.0	20.9		ug/L		83	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	28.6		ug/L		114	61 - 132
Bromomethane	25.0	22.6		ug/L		91	55 - 144
Carbon disulfide	25.0	20.6		ug/L		82	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	23.4		ug/L		93	80 - 120
Chloroethane	25.0	21.7		ug/L		87	69 - 136
Chloroform	25.0	20.0		ug/L		80	73 - 127
Chloromethane	25.0	20.1		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	21.3		ug/L		85	74 - 124
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	74 - 124
Dibromochloromethane	25.0	27.6		ug/L		111	75 - 125
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Methylene Chloride	25.0	19.7		ug/L		79	75 - 124
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	21.9		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	73 - 127
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	80 - 120
Trichloroethene	25.0	20.6		ug/L		82	74 - 123
Vinyl acetate	50.0	43.0		ug/L		86	50 - 144
Vinyl chloride	25.0	22.2		ug/L		89	65 - 133
Xylenes, Total	50.0	46.7		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: MB 480-478042/8
Matrix: Water
Analysis Batch: 478042

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/17/19 11:06	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/17/19 11:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-478042/8
Matrix: Water
Analysis Batch: 478042

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 11:06	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 11:06	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:06	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 11:06	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 11:06	1
2-Butanone	ND	U	10		ug/L			06/17/19 11:06	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 11:06	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 11:06	1
Acetone	ND	U	10		ug/L			06/17/19 11:06	1
Benzene	ND	U	1.0		ug/L			06/17/19 11:06	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 11:06	1
Bromoform	ND	U	1.0		ug/L			06/17/19 11:06	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 11:06	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 11:06	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 11:06	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 11:06	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 11:06	1
Chloroform	ND	U	1.0		ug/L			06/17/19 11:06	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 11:06	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:06	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 11:06	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 11:06	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 11:06	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 11:06	1
Styrene	ND	U	1.0		ug/L			06/17/19 11:06	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 11:06	1
Toluene	ND	U	1.0		ug/L			06/17/19 11:06	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:06	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 11:06	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 11:06	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 11:06	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 11:06	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/17/19 11:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/17/19 11:06*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*06/17/19 11:06*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*06/17/19 11:06*	*1*

Lab Sample ID: LCS 480-478042/5
Matrix: Water
Analysis Batch: 478042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	26.5		ug/L		106	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	22.6		ug/L		91	76 - 120		
1,1,2-Trichloroethane			25.0	24.2		ug/L		97	76 - 122		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478042/5
Matrix: Water
Analysis Batch: 478042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.1		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	20.8		ug/L		83	66 - 127
1,2-Dichloroethane	25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	21.0		ug/L		84	76 - 120
2-Butanone	125	98.6		ug/L		79	57 - 140
2-Hexanone	125	111		ug/L		89	65 - 127
4-Methyl-2-pentanone	125	110		ug/L		88	71 - 125
Acetone	125	106		ug/L		85	56 - 142
Benzene	25.0	22.0		ug/L		88	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	28.8		ug/L		115	61 - 132
Bromomethane	25.0	23.4		ug/L		94	55 - 144
Carbon disulfide	25.0	22.2		ug/L		89	59 - 134
Carbon tetrachloride	25.0	27.8		ug/L		111	72 - 134
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Chloroethane	25.0	22.8		ug/L		91	69 - 136
Chloroform	25.0	22.2		ug/L		89	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	74 - 124
Dibromochloromethane	25.0	28.8		ug/L		115	75 - 125
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Methylene Chloride	25.0	21.0		ug/L		84	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
Trichloroethene	25.0	22.1		ug/L		89	74 - 123
Vinyl acetate	50.0	46.9		ug/L		94	50 - 144
Vinyl chloride	25.0	22.1		ug/L		89	65 - 133
Xylenes, Total	50.0	46.6		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: MB 480-478257/7
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/18/19 12:52	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/18/19 12:52	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			06/18/19 12:52	1
1,1-Dichloroethane	ND	U	1.0	ug/L			06/18/19 12:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-478257/7
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	U	1.0		ug/L			06/18/19 12:52	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/18/19 12:52	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/18/19 12:52	1
2-Butanone	ND	U	10		ug/L			06/18/19 12:52	1
2-Hexanone	ND	U	5.0		ug/L			06/18/19 12:52	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/18/19 12:52	1
Acetone	ND	U	10		ug/L			06/18/19 12:52	1
Benzene	ND	U	1.0		ug/L			06/18/19 12:52	1
Bromodichloromethane	ND	U	1.0		ug/L			06/18/19 12:52	1
Bromoform	ND	U	1.0		ug/L			06/18/19 12:52	1
Bromomethane	ND	U	1.0		ug/L			06/18/19 12:52	1
Carbon disulfide	ND	U	1.0		ug/L			06/18/19 12:52	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/18/19 12:52	1
Chlorobenzene	ND	U	1.0		ug/L			06/18/19 12:52	1
Chloroethane	ND	U	1.0		ug/L			06/18/19 12:52	1
Chloroform	ND	U	1.0		ug/L			06/18/19 12:52	1
Chloromethane	ND	U	1.0		ug/L			06/18/19 12:52	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/18/19 12:52	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/18/19 12:52	1
Dibromochloromethane	ND	U	1.0		ug/L			06/18/19 12:52	1
Ethylbenzene	ND	U	1.0		ug/L			06/18/19 12:52	1
Methylene Chloride	ND	U	1.0		ug/L			06/18/19 12:52	1
Styrene	ND	U	1.0		ug/L			06/18/19 12:52	1
Tetrachloroethene	ND	U	1.0		ug/L			06/18/19 12:52	1
Toluene	ND	U	1.0		ug/L			06/18/19 12:52	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/18/19 12:52	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/18/19 12:52	1
Trichloroethene	ND	U	1.0		ug/L			06/18/19 12:52	1
Vinyl acetate	ND	U	5.0		ug/L			06/18/19 12:52	1
Vinyl chloride	ND	U	1.0		ug/L			06/18/19 12:52	1
Xylenes, Total	ND	U	2.0		ug/L			06/18/19 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/18/19 12:52*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/18/19 12:52*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*06/18/19 12:52*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*06/18/19 12:52*	*1*

Lab Sample ID: LCS 480-478257/5
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	28.1		ug/L		112	76 - 120
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	25.1		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	21.3		ug/L		85	66 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478257/5
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		106	76 - 120
2-Butanone	125	129		ug/L		103	57 - 140
2-Hexanone	125	143		ug/L		114	65 - 127
4-Methyl-2-pentanone	125	132		ug/L		105	71 - 125
Acetone	125	111		ug/L		89	56 - 142
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromodichloromethane	25.0	24.7		ug/L		99	80 - 122
Bromoform	25.0	23.9		ug/L		96	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Carbon disulfide	25.0	22.3		ug/L		89	59 - 134
Carbon tetrachloride	25.0	21.6		ug/L		87	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	22.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		99	74 - 124
Dibromochloromethane	25.0	23.7		ug/L		95	75 - 125
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124
Styrene	25.0	24.1		ug/L		96	80 - 120
Tetrachloroethene	25.0	21.6		ug/L		86	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	80 - 120
Trichloroethene	25.0	21.9		ug/L		88	74 - 123
Vinyl acetate	50.0	49.1		ug/L		98	50 - 144
Vinyl chloride	25.0	24.1		ug/L		96	65 - 133
Xylenes, Total	50.0	45.9		ug/L		92	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 02:23	1
2-Butanone	ND	U	10		ug/L			06/19/19 02:23	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 02:23	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 02:23	1
Acetone	ND	U	10		ug/L			06/19/19 02:23	1
Benzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromoform	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroform	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Styrene	ND	U	1.0		ug/L			06/19/19 02:23	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Toluene	ND	U	1.0		ug/L			06/19/19 02:23	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 02:23	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/19/19 02:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/19/19 02:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/19/19 02:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/19/19 02:23*	*1*

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	23.8		ug/L		95	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	19.6		ug/L		78	76 - 120		
1,1,2-Trichloroethane			25.0	21.6		ug/L		86	76 - 122		
1,1-Dichloroethane			25.0	24.9		ug/L		100	77 - 120		
1,1-Dichloroethene			25.0	20.7		ug/L		83	66 - 127		
1,2-Dichloroethane			25.0	23.1		ug/L		92	75 - 120		
1,2-Dichloropropane			25.0	25.6		ug/L		102	76 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	125	154		ug/L		123	57 - 140
2-Hexanone	125	99.7		ug/L		80	65 - 127
4-Methyl-2-pentanone	125	98.6		ug/L		79	71 - 125
Acetone	125	89.1		ug/L		71	56 - 142
Benzene	25.0	23.1		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	22.8		ug/L		91	61 - 132
Bromomethane	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	21.9		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	74 - 124
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl acetate	50.0	48.2		ug/L		96	50 - 144
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133
Xylenes, Total	50.0	47.8		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-477897/1-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477897

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10	ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dichlorophenol	ND	U	10	ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dimethylphenol	ND	U	10	ug/L		06/14/19 15:11	06/21/19 00:00	1
2,4-Dinitrophenol	ND	U	50	ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Chlorophenol	ND	U	10	ug/L		06/14/19 15:11	06/21/19 00:00	1
2-Nitrophenol	ND	U	10	ug/L		06/14/19 15:11	06/21/19 00:00	1
4,6-Dinitro-2-methylphenol	ND	U	50	ug/L		06/14/19 15:11	06/21/19 00:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-477897/1-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477897

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1
4-Nitrophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Pentachlorophenol	ND	U	50		ug/L		06/14/19 15:11	06/21/19 00:00	1
Phenol	ND	U	10		ug/L		06/14/19 15:11	06/21/19 00:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*46 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
Phenol-d5	*41*		*22 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2-Fluorophenol	*58*		*35 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*
2,4,6-Tribromophenol	*88*		*41 - 120*	*06/14/19 15:11*	*06/21/19 00:00*	*1*

Lab Sample ID: LCS 480-477897/2-A
Matrix: Water
Analysis Batch: 478886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477897

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,6-Trichlorophenol			32.0	31.4		ug/L		98	64 - 120		
2,4-Dichlorophenol			32.0	30.4		ug/L		95	63 - 120		
2,4-Dimethylphenol			32.0	30.9		ug/L		97	47 - 120		
2,4-Dinitrophenol			64.0	67.8		ug/L		106	31 - 137		
2-Chlorophenol			32.0	27.6		ug/L		86	48 - 120		
2-Nitrophenol			32.0	32.1		ug/L		100	52 - 125		
4,6-Dinitro-2-methylphenol			64.0	73.2		ug/L		114	46 - 136		
4-Chloro-3-methylphenol			32.0	32.0		ug/L		100	61 - 123		
4-Nitrophenol			64.0	69.0		ug/L		108	45 - 120		
Pentachlorophenol			64.0	51.7		ug/L		81	29 - 136		
Phenol			32.0	17.6		ug/L		55	17 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*81*		*46 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
p-Terphenyl-d14	*105*		*59 - 136*
Phenol-d5	*53*		*22 - 120*
2-Fluorophenol	*68*		*35 - 120*
2,4,6-Tribromophenol	*118*		*41 - 120*

Lab Sample ID: MB 480-478248/1-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
2,4-Dichlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
2,4-Dimethylphenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
2,4-Dinitrophenol	ND	U	50		ug/L		06/18/19 07:53	06/25/19 15:29	1
2-Chlorophenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-478248/1-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
4,6-Dinitro-2-methylphenol	ND	U	50		ug/L		06/18/19 07:53	06/25/19 15:29	1
4-Chloro-3-methylphenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
4-Nitrophenol	ND	U	50		ug/L		06/18/19 07:53	06/25/19 15:29	1
Pentachlorophenol	ND	U	50		ug/L		06/18/19 07:53	06/25/19 15:29	1
Phenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*46 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
Phenol-d5	*39*		*22 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2-Fluorophenol	*54*		*35 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2,4,6-Tribromophenol	*75*		*41 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*

Lab Sample ID: LCS 480-478248/2-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,6-Trichlorophenol			32.0	34.5		ug/L		108	64 - 120		
2,4-Dichlorophenol			32.0	33.2		ug/L		104	63 - 120		
2,4-Dimethylphenol			32.0	32.4		ug/L		101	47 - 120		
2,4-Dinitrophenol			64.0	75.0		ug/L		117	31 - 137		
2-Chlorophenol			32.0	28.5		ug/L		89	48 - 120		
2-Nitrophenol			32.0	31.0		ug/L		97	52 - 125		
4,6-Dinitro-2-methylphenol			64.0	76.9		ug/L		120	46 - 136		
4-Chloro-3-methylphenol			32.0	31.3		ug/L		98	61 - 123		
4-Nitrophenol			64.0	70.5		ug/L		110	45 - 120		
Pentachlorophenol			64.0	70.8		ug/L		111	29 - 136		
Phenol			32.0	21.5		ug/L		67	17 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*87*		*46 - 120*
2-Fluorobiphenyl	*91*		*48 - 120*
p-Terphenyl-d14	*98*		*59 - 136*
Phenol-d5	*58*		*22 - 120*
2-Fluorophenol	*72*		*35 - 120*
2,4,6-Tribromophenol	*108*		*41 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-477677/1-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477677

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/14/19 07:45	06/22/19 21:31	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-477677/1-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477677

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/14/19 07:45	06/22/19 21:31	1
Barium	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Calcium	ND	U	0.15		mg/L		06/14/19 07:45	06/22/19 21:31	1
Chromium	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Cobalt	ND	U	0.0040		mg/L		06/14/19 07:45	06/22/19 21:31	1
Copper	ND	U	0.025		mg/L		06/14/19 07:45	06/22/19 21:31	1
Iron	ND	U	0.030		mg/L		06/14/19 07:45	06/22/19 21:31	1
Lead	ND	U	0.0050		mg/L		06/14/19 07:45	06/22/19 21:31	1
Magnesium	ND	U	0.24		mg/L		06/14/19 07:45	06/22/19 21:31	1
Manganese	ND	U	0.010		mg/L		06/14/19 07:45	06/22/19 21:31	1
Nickel	ND	U	0.040		mg/L		06/14/19 07:45	06/22/19 21:31	1
Potassium	ND	U	1.0		mg/L		06/14/19 07:45	06/22/19 21:31	1
Sodium	ND	U	0.40		mg/L		06/14/19 07:45	06/22/19 21:31	1
Zinc	ND	U	0.020		mg/L		06/14/19 07:45	06/22/19 21:31	1

Lab Sample ID: LCS 480-477677/2-A
Matrix: Water
Analysis Batch: 479249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.67		mg/L		97	80 - 120
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.194		mg/L		97	80 - 120
Calcium	10.0	9.60		mg/L		96	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.189		mg/L		94	80 - 120
Iron	10.0	9.50		mg/L		95	80 - 120
Lead	0.200	0.189		mg/L		95	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.200	0.193		mg/L		96	80 - 120
Nickel	0.200	0.190		mg/L		95	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120
Sodium	10.0	9.17		mg/L		92	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Lab Sample ID: MB 480-478172/1-A
Matrix: Water
Analysis Batch: 478542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478172

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.080		mg/L		06/18/19 07:04	06/18/19 23:07	1
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 23:07	1
Barium	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 23:07	1
Calcium	ND	U	0.15		mg/L		06/18/19 07:04	06/18/19 23:07	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 23:07	1
Cobalt	ND	U	0.0040		mg/L		06/18/19 07:04	06/18/19 23:07	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 23:07	1
Iron	ND	U	0.030		mg/L		06/18/19 07:04	06/18/19 23:07	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-478172/1-A
Matrix: Water
Analysis Batch: 478542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478172

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 23:07	1
Magnesium	ND	U	0.24		mg/L		06/18/19 07:04	06/18/19 23:07	1
Manganese	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 23:07	1
Nickel	ND	U	0.040		mg/L		06/18/19 07:04	06/18/19 23:07	1
Potassium	ND	U	1.0		mg/L		06/18/19 07:04	06/18/19 23:07	1
Sodium	ND	U	0.40		mg/L		06/18/19 07:04	06/18/19 23:07	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 23:07	1

Lab Sample ID: LCS 480-478172/2-A
Matrix: Water
Analysis Batch: 478542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478172

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			10.0	9.35		mg/L		94	80 - 120		
Arsenic			0.200	0.202		mg/L		101	80 - 120		
Barium			0.200	0.200		mg/L		100	80 - 120		
Calcium			10.0	9.64		mg/L		96	80 - 120		
Chromium			0.200	0.201		mg/L		101	80 - 120		
Cobalt			0.200	0.184		mg/L		92	80 - 120		
Copper			0.200	0.196		mg/L		98	80 - 120		
Iron			10.0	9.93		mg/L		99	80 - 120		
Lead			0.200	0.189		mg/L		94	80 - 120		
Magnesium			10.0	9.58		mg/L		96	80 - 120		
Manganese			0.200	0.196		mg/L		98	80 - 120		
Nickel			0.200	0.195		mg/L		98	80 - 120		
Potassium			10.0	9.52		mg/L		95	80 - 120		
Sodium			10.0	9.44		mg/L		94	80 - 120		
Zinc			0.200	0.197		mg/L		98	80 - 120		

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-477814/1-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477814

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/14/19 11:20	06/14/19 14:31	1

Lab Sample ID: LCS 480-477814/2-A
Matrix: Water
Analysis Batch: 477900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477814

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00713		mg/L		107	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-478575/1-A
Matrix: Water
Analysis Batch: 478665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478575

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/19/19 11:40	06/19/19 14:55	1

Lab Sample ID: LCS 480-478575/2-A
Matrix: Water
Analysis Batch: 478665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00678		mg/L		102	80 - 120		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-479427/42
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 15:11	1

Lab Sample ID: MB 480-479427/54
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 15:51	1

Lab Sample ID: MB 480-479427/61
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 16:08	1

Lab Sample ID: MB 480-479427/80
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/24/19 16:59	1

Lab Sample ID: LCS 480-479427/43
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.2		mg/L		104	90 - 110		

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-479427/55
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.2		mg/L		104	90 - 110

Lab Sample ID: LCS 480-479427/62
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: LCS 480-479427/81
Matrix: Water
Analysis Batch: 479427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: MB 480-479576/12
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/25/19 12:02	1

Lab Sample ID: MB 480-479576/29
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/25/19 12:48	1

Lab Sample ID: MB 480-479576/67
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/25/19 15:10	1

Lab Sample ID: LCS 480-479576/13
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.2		mg/L		108	90 - 110

Lab Sample ID: LCS 480-479576/30
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.1		mg/L		104	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-479576/68
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.9		mg/L		102	90 - 110		

Lab Sample ID: 480-154852-5 MS
Matrix: Leachate
Analysis Batch: 479576

Client Sample ID: 7LD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	300		20.0	302		mg/L		-9	60 - 140		

Lab Sample ID: 480-154852-5 MSD
Matrix: Leachate
Analysis Batch: 479576

Client Sample ID: 7LD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	300		20.0	326		mg/L		110	60 - 140	8	20

Lab Sample ID: 480-154852-6 MS
Matrix: Leachate
Analysis Batch: 479576

Client Sample ID: 9ABCLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	450		20.0	449		mg/L		8	60 - 140		

Lab Sample ID: 480-154852-6 MSD
Matrix: Leachate
Analysis Batch: 479576

Client Sample ID: 9ABCLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	450		20.0	451		mg/L		16	60 - 140	0	20

Lab Sample ID: MB 480-479741/24
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 10:55	1

Lab Sample ID: MB 480-479741/62
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/26/19 11:25	1

Lab Sample ID: LCS 480-479741/25
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	46.1		mg/L		92	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-479741/63
Matrix: Water
Analysis Batch: 479741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	47.4		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-481358/1-A
Matrix: Water
Analysis Batch: 481370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481358

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L as N		07/09/19 13:00	07/09/19 15:45	1

Lab Sample ID: LCS 480-481358/2-A
Matrix: Water
Analysis Batch: 481370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.971		mg/L as N		97	90 - 110

Lab Sample ID: 480-154852-6 MS
Matrix: Leachate
Analysis Batch: 481370

Client Sample ID: 9ABCLD
Prep Type: Total/NA
Prep Batch: 481358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	9.7		0.500	10.6		mg/L as N		172	90 - 110

Lab Sample ID: 480-154852-5 DU
Matrix: Leachate
Analysis Batch: 481370

Client Sample ID: 7LD
Prep Type: Total/NA
Prep Batch: 481358

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	0.62		0.565		mg/L as N		9	20

Lab Sample ID: MB 480-481490/1-A
Matrix: Water
Analysis Batch: 481614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481490

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L as N		07/10/19 13:00	07/11/19 08:52	1

Lab Sample ID: LCS 480-481490/2-A
Matrix: Water
Analysis Batch: 481614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.932		mg/L as N		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-479499/51
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/25/19 11:04	1

Lab Sample ID: MB 480-479499/75
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/25/19 11:04	1

Lab Sample ID: LCS 480-479499/52
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.6		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-479499/76
Matrix: Water
Analysis Batch: 479499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	25.2		mg/L		101	90 - 110		

Lab Sample ID: 480-154852-4 MS
Matrix: Leachate
Analysis Batch: 479499

Client Sample ID: 10ABLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	61		50.0	123		mg/L		123	75 - 125		

Lab Sample ID: 480-154852-4 DU
Matrix: Leachate
Analysis Batch: 479499

Client Sample ID: 10ABLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	61			60.8		mg/L				1	20

Lab Sample ID: MB 480-480286/27
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 09:30	1

Lab Sample ID: MB 480-480286/3
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 09:30	1

Method: 410.4 - COD

Lab Sample ID: LCS 480-480286/28
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.2		mg/L		93	90 - 110

Lab Sample ID: LCS 480-480286/4
Matrix: Water
Analysis Batch: 480286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.5		mg/L		102	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-481256/36
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 18:01	1

Lab Sample ID: MB 480-481256/68
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/08/19 18:24	1

Lab Sample ID: LCS 480-481256/35
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.8		mg/L		96	90 - 110

Lab Sample ID: LCS 480-481256/67
Matrix: Water
Analysis Batch: 481256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.8		mg/L		96	90 - 110

Lab Sample ID: MB 480-481426/32
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 14:29	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 480-481426/31
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.9		mg/L		100	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-479428/12
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 12:05	1

Lab Sample ID: MB 480-479428/19
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 14:11	1

Lab Sample ID: MB 480-479428/45
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/24/19 15:46	1

Lab Sample ID: LCS 480-479428/13
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.4		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-479428/20
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.2		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-479428/46
Matrix: Water
Analysis Batch: 479428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.3		mg/L		109	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 480-479577/130
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 13:58	1

Lab Sample ID: MB 480-479577/22
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 09:47	1

Lab Sample ID: MB 480-479577/65
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 12:21	1

Lab Sample ID: MB 480-479577/99
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 13:13	1

Lab Sample ID: LCS 480-479577/100
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.6		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-479577/131
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-479577/23
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.9		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-479577/66
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.0		mg/L		104	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: 480-154852-5 MS
Matrix: Leachate
Analysis Batch: 479577

Client Sample ID: 7LD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	500		20.0	477		mg/L		-125	74 - 131		

Lab Sample ID: 480-154852-5 MSD
Matrix: Leachate
Analysis Batch: 479577

Client Sample ID: 7LD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	500		20.0	466		mg/L		-181	74 - 131	2	20

Lab Sample ID: 480-154852-6 MS
Matrix: Leachate
Analysis Batch: 479577

Client Sample ID: 9ABCLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	320		20.0	330		mg/L		57	74 - 131		

Lab Sample ID: 480-154852-6 MSD
Matrix: Leachate
Analysis Batch: 479577

Client Sample ID: 9ABCLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	320		20.0	335		mg/L		81	74 - 131	1	20

Lab Sample ID: MB 480-481390/49
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:13	1

Lab Sample ID: MB 480-481390/64
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:28	1

Lab Sample ID: MB 480-481390/75
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 14:49	1

Lab Sample ID: MB 480-481390/97
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/09/19 15:34	1

Method: 9251 - Chloride

Lab Sample ID: LCS 480-481390/50
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.1		mg/L		100	90 - 110

Lab Sample ID: LCS 480-481390/65
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110

Lab Sample ID: LCS 480-481390/76
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	90 - 110

Lab Sample ID: LCS 480-481390/98
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.4		mg/L		102	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-478246/1
Matrix: Water
Analysis Batch: 478246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/18/19 07:49	1

Lab Sample ID: LCS 480-478246/2
Matrix: Water
Analysis Batch: 478246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	517		mg/L		103	85 - 115

Lab Sample ID: MB 480-478576/1
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/19/19 10:48	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-478576/2
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	509		mg/L		102	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-478328/1
Matrix: Water
Analysis Batch: 478328

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/18/19 10:19	1

Lab Sample ID: LCS 480-478328/2
Matrix: Water
Analysis Batch: 478328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	274	269		mg/L		98	88 - 110

Lab Sample ID: 480-154852-6 DU
Matrix: Leachate
Analysis Batch: 478328

Client Sample ID: 9ABCLD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-478791/1
Matrix: Water
Analysis Batch: 478791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			06/20/19 10:06	1

Lab Sample ID: LCS 480-478791/2
Matrix: Water
Analysis Batch: 478791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	260	252		mg/L		97	88 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481026/27
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0	mg/L			07/06/19 02:18	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-481026/28
Matrix: Water
Analysis Batch: 481026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.4		mg/L		99	90 - 110		

Lab Sample ID: MB 480-481318/27
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 00:29	1

Lab Sample ID: LCS 480-481318/28
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.1		mg/L		97	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

GC/MS VOA

Analysis Batch: 477945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	8260C	
480-154852-2	11ABCLD	Total/NA	Leachate	8260C	
MB 480-477945/7	Method Blank	Total/NA	Water	8260C	
LCS 480-477945/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 478042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-3	12LD	Total/NA	Leachate	8260C	
480-154852-4	10ABLD	Total/NA	Leachate	8260C	
480-154852-5	7LD	Total/NA	Leachate	8260C	
480-154852-6	9ABCLD	Total/NA	Leachate	8260C	
480-154852-7	TB	Total/NA	WQ	8260C	
MB 480-478042/8	Method Blank	Total/NA	Water	8260C	
LCS 480-478042/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 478257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	8260C	
MB 480-478257/7	Method Blank	Total/NA	Water	8260C	
LCS 480-478257/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 478467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-2	TB	Total/NA	Water	8260C	
MB 480-478467/8	Method Blank	Total/NA	Water	8260C	
LCS 480-478467/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 477897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	3510C	
480-154852-2	11ABCLD	Total/NA	Leachate	3510C	
480-154852-3	12LD	Total/NA	Leachate	3510C	
480-154852-4	10ABLD	Total/NA	Leachate	3510C	
480-154852-5	7LD	Total/NA	Leachate	3510C	
480-154852-6	9ABCLD	Total/NA	Leachate	3510C	
MB 480-477897/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-477897/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 478248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	3510C	
MB 480-478248/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-478248/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 478886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477897/1-A	Method Blank	Total/NA	Water	8270D	477897
LCS 480-477897/2-A	Lab Control Sample	Total/NA	Water	8270D	477897

GC/MS Semi VOA

Analysis Batch: 479041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	8270D	477897
480-154852-2	11ABCLD	Total/NA	Leachate	8270D	477897
480-154852-3	12LD	Total/NA	Leachate	8270D	477897
480-154852-4	10ABLD	Total/NA	Leachate	8270D	477897
480-154852-5	7LD	Total/NA	Leachate	8270D	477897
480-154852-6	9ABCLD	Total/NA	Leachate	8270D	477897

Analysis Batch: 479465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-478248/1-A	Method Blank	Total/NA	Water	8270D	478248
LCS 480-478248/2-A	Lab Control Sample	Total/NA	Water	8270D	478248

Analysis Batch: 479705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	8270D	478248

Metals

Prep Batch: 477677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	3005A	
480-154852-2	11ABCLD	Total/NA	Leachate	3005A	
480-154852-3	12LD	Total/NA	Leachate	3005A	
480-154852-4	10ABLD	Total/NA	Leachate	3005A	
480-154852-5	7LD	Total/NA	Leachate	3005A	
480-154852-6	9ABCLD	Total/NA	Leachate	3005A	
MB 480-477677/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 477814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	7470A	
480-154852-2	11ABCLD	Total/NA	Leachate	7470A	
480-154852-3	12LD	Total/NA	Leachate	7470A	
480-154852-4	10ABLD	Total/NA	Leachate	7470A	
480-154852-5	7LD	Total/NA	Leachate	7470A	
480-154852-6	9ABCLD	Total/NA	Leachate	7470A	
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 477900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	7470A	477814
480-154852-2	11ABCLD	Total/NA	Leachate	7470A	477814
480-154852-3	12LD	Total/NA	Leachate	7470A	477814
480-154852-4	10ABLD	Total/NA	Leachate	7470A	477814
480-154852-5	7LD	Total/NA	Leachate	7470A	477814
480-154852-6	9ABCLD	Total/NA	Leachate	7470A	477814
MB 480-477814/1-A	Method Blank	Total/NA	Water	7470A	477814
LCS 480-477814/2-A	Lab Control Sample	Total/NA	Water	7470A	477814

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Metals

Prep Batch: 478172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	3005A	
MB 480-478172/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-478172/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 478542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	6010C	478172
MB 480-478172/1-A	Method Blank	Total/NA	Water	6010C	478172
LCS 480-478172/2-A	Lab Control Sample	Total/NA	Water	6010C	478172

Prep Batch: 478575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	7470A	
MB 480-478575/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-478575/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 478665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	7470A	478575
MB 480-478575/1-A	Method Blank	Total/NA	Water	7470A	478575
LCS 480-478575/2-A	Lab Control Sample	Total/NA	Water	7470A	478575

Analysis Batch: 478875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	6010C	478172

Analysis Batch: 479249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	6010C	477677
480-154852-2	11ABCLD	Total/NA	Leachate	6010C	477677
480-154852-3	12LD	Total/NA	Leachate	6010C	477677
480-154852-4	10ABLD	Total/NA	Leachate	6010C	477677
480-154852-5	7LD	Total/NA	Leachate	6010C	477677
480-154852-6	9ABCLD	Total/NA	Leachate	6010C	477677
MB 480-477677/1-A	Method Blank	Total/NA	Water	6010C	477677
LCS 480-477677/2-A	Lab Control Sample	Total/NA	Water	6010C	477677

Analysis Batch: 479425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	6010C	477677

General Chemistry

Analysis Batch: 477727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	353.2	
480-154852-2	11ABCLD	Total/NA	Leachate	353.2	
480-154852-3	12LD	Total/NA	Leachate	353.2	

General Chemistry

Analysis Batch: 477728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-5	7LD	Total/NA	Leachate	353.2	

Analysis Batch: 477729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-4	10ABLD	Total/NA	Leachate	353.2	
480-154852-6	9ABCLD	Total/NA	Leachate	353.2	

Analysis Batch: 477924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	353.2	

Analysis Batch: 478246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	SM 2540C	
480-154852-2	11ABCLD	Total/NA	Leachate	SM 2540C	
480-154852-3	12LD	Total/NA	Leachate	SM 2540C	
480-154852-4	10ABLD	Total/NA	Leachate	SM 2540C	
480-154852-5	7LD	Total/NA	Leachate	SM 2540C	
480-154852-6	9ABCLD	Total/NA	Leachate	SM 2540C	
MB 480-478246/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478246/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	SM 2540D	
480-154852-2	11ABCLD	Total/NA	Leachate	SM 2540D	
480-154852-3	12LD	Total/NA	Leachate	SM 2540D	
480-154852-4	10ABLD	Total/NA	Leachate	SM 2540D	
480-154852-5	7LD	Total/NA	Leachate	SM 2540D	
480-154852-6	9ABCLD	Total/NA	Leachate	SM 2540D	
MB 480-478328/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478328/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154852-6 DU	9ABCLD	Total/NA	Leachate	SM 2540D	

Analysis Batch: 478576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	SM 2540C	
MB 480-478576/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478576/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	SM 2540D	
MB 480-478791/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478791/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 479427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	310.2	
480-154852-2	11ABCLD	Total/NA	Leachate	310.2	
480-154852-3	12LD	Total/NA	Leachate	310.2	

General Chemistry (Continued)

Analysis Batch: 479427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-4	10ABLD	Total/NA	Leachate	310.2	
MB 480-479427/42	Method Blank	Total/NA	Water	310.2	
MB 480-479427/54	Method Blank	Total/NA	Water	310.2	
MB 480-479427/61	Method Blank	Total/NA	Water	310.2	
MB 480-479427/80	Method Blank	Total/NA	Water	310.2	
LCS 480-479427/43	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479427/55	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479427/62	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479427/81	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-2	11ABCLD	Total/NA	Leachate	9251	
480-154852-3	12LD	Total/NA	Leachate	9251	
MB 480-479428/12	Method Blank	Total/NA	Water	9251	
MB 480-479428/19	Method Blank	Total/NA	Water	9251	
MB 480-479428/45	Method Blank	Total/NA	Water	9251	
LCS 480-479428/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479428/20	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479428/46	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 479499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	410.4	
480-154852-2	11ABCLD	Total/NA	Leachate	410.4	
480-154852-3	12LD	Total/NA	Leachate	410.4	
480-154852-4	10ABLD	Total/NA	Leachate	410.4	
480-154852-5	7LD	Total/NA	Leachate	410.4	
480-154852-6	9ABCLD	Total/NA	Leachate	410.4	
MB 480-479499/51	Method Blank	Total/NA	Water	410.4	
MB 480-479499/75	Method Blank	Total/NA	Water	410.4	
LCS 480-479499/52	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-479499/76	Lab Control Sample	Total/NA	Water	410.4	
480-154852-4 MS	10ABLD	Total/NA	Leachate	410.4	
480-154852-4 DU	10ABLD	Total/NA	Leachate	410.4	

Analysis Batch: 479576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-5	7LD	Total/NA	Leachate	310.2	
480-154852-6	9ABCLD	Total/NA	Leachate	310.2	
MB 480-479576/12	Method Blank	Total/NA	Water	310.2	
MB 480-479576/29	Method Blank	Total/NA	Water	310.2	
MB 480-479576/67	Method Blank	Total/NA	Water	310.2	
LCS 480-479576/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/30	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/68	Lab Control Sample	Total/NA	Water	310.2	
480-154852-5 MS	7LD	Total/NA	Leachate	310.2	
480-154852-5 MSD	7LD	Total/NA	Leachate	310.2	
480-154852-6 MS	9ABCLD	Total/NA	Leachate	310.2	
480-154852-6 MSD	9ABCLD	Total/NA	Leachate	310.2	

General Chemistry

Analysis Batch: 479577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-5	7LD	Total/NA	Leachate	9251	
480-154852-6	9ABCLD	Total/NA	Leachate	9251	
MB 480-479577/130	Method Blank	Total/NA	Water	9251	
MB 480-479577/22	Method Blank	Total/NA	Water	9251	
MB 480-479577/65	Method Blank	Total/NA	Water	9251	
MB 480-479577/99	Method Blank	Total/NA	Water	9251	
LCS 480-479577/100	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/131	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/23	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/66	Lab Control Sample	Total/NA	Water	9251	
480-154852-5 MS	7LD	Total/NA	Leachate	9251	
480-154852-5 MSD	7LD	Total/NA	Leachate	9251	
480-154852-6 MS	9ABCLD	Total/NA	Leachate	9251	
480-154852-6 MSD	9ABCLD	Total/NA	Leachate	9251	

Analysis Batch: 479741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	310.2	
MB 480-479741/24	Method Blank	Total/NA	Water	310.2	
MB 480-479741/62	Method Blank	Total/NA	Water	310.2	
LCS 480-479741/25	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479741/63	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	410.4	
MB 480-480286/27	Method Blank	Total/NA	Water	410.4	
MB 480-480286/3	Method Blank	Total/NA	Water	410.4	
LCS 480-480286/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-480286/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 480633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	SM 5210B	
480-154852-2	11ABCLD	Total/NA	Leachate	SM 5210B	
480-154852-3	12LD	Total/NA	Leachate	SM 5210B	
480-154852-4	10ABLD	Total/NA	Leachate	SM 5210B	
480-154852-5	7LD	Total/NA	Leachate	SM 5210B	
480-154852-6	9ABCLD	Total/NA	Leachate	SM 5210B	

Analysis Batch: 481026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	SM 5310C	
480-154852-2	11ABCLD	Total/NA	Leachate	SM 5310C	
480-154852-3	12LD	Total/NA	Leachate	SM 5310C	
480-154852-4	10ABLD	Total/NA	Leachate	SM 5310C	
480-154852-5	7LD	Total/NA	Leachate	SM 5310C	
480-154852-6	9ABCLD	Total/NA	Leachate	SM 5310C	
MB 480-481026/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481026/28	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 481256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	9038	
480-154852-2	11ABCLD	Total/NA	Leachate	9038	
480-154852-3	12LD	Total/NA	Leachate	9038	
480-154852-4	10ABLD	Total/NA	Leachate	9038	
480-154852-5	7LD	Total/NA	Leachate	9038	
480-154852-6	9ABCLD	Total/NA	Leachate	9038	
MB 480-481256/36	Method Blank	Total/NA	Water	9038	
MB 480-481256/68	Method Blank	Total/NA	Water	9038	
LCS 480-481256/35	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481256/67	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 481318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	SM 5310C	
MB 480-481318/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481318/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 481358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	Distill/Ammonia	
480-154852-2	11ABCLD	Total/NA	Leachate	Distill/Ammonia	
480-154852-3	12LD	Total/NA	Leachate	Distill/Ammonia	
480-154852-4	10ABLD	Total/NA	Leachate	Distill/Ammonia	
480-154852-5	7LD	Total/NA	Leachate	Distill/Ammonia	
480-154852-6	9ABCLD	Total/NA	Leachate	Distill/Ammonia	
MB 480-481358/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481358/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-154852-6 MS	9ABCLD	Total/NA	Leachate	Distill/Ammonia	
480-154852-5 DU	7LD	Total/NA	Leachate	Distill/Ammonia	

Analysis Batch: 481370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	350.1	481358
480-154852-2	11ABCLD	Total/NA	Leachate	350.1	481358
480-154852-3	12LD	Total/NA	Leachate	350.1	481358
480-154852-4	10ABLD	Total/NA	Leachate	350.1	481358
480-154852-5	7LD	Total/NA	Leachate	350.1	481358
480-154852-6	9ABCLD	Total/NA	Leachate	350.1	481358
MB 480-481358/1-A	Method Blank	Total/NA	Water	350.1	481358
LCS 480-481358/2-A	Lab Control Sample	Total/NA	Water	350.1	481358
480-154852-6 MS	9ABCLD	Total/NA	Leachate	350.1	481358
480-154852-5 DU	7LD	Total/NA	Leachate	350.1	481358

Analysis Batch: 481390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	9251	
480-154852-4	10ABLD	Total/NA	Leachate	9251	
480-154927-1	45SD	Total/NA	Leachate	9251	
MB 480-481390/49	Method Blank	Total/NA	Water	9251	
MB 480-481390/64	Method Blank	Total/NA	Water	9251	
MB 480-481390/75	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 481390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-481390/97	Method Blank	Total/NA	Water	9251	
LCS 480-481390/50	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/65	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/76	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/98	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	9038	
MB 480-481426/32	Method Blank	Total/NA	Water	9038	
LCS 480-481426/31	Lab Control Sample	Total/NA	Water	9038	

Prep Batch: 481490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	Distill/Ammonia	
MB 480-481490/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481490/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 481614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	350.1	481490
MB 480-481490/1-A	Method Blank	Total/NA	Water	350.1	481490
LCS 480-481490/2-A	Lab Control Sample	Total/NA	Water	350.1	481490

Analysis Batch: 482057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	SM 5210B	

Field Service / Mobile Lab

Analysis Batch: 477857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154852-1	12ABLD	Total/NA	Leachate	Field Sampling	
480-154852-2	11ABCLD	Total/NA	Leachate	Field Sampling	
480-154852-3	12LD	Total/NA	Leachate	Field Sampling	
480-154852-4	10ABLD	Total/NA	Leachate	Field Sampling	
480-154852-5	7LD	Total/NA	Leachate	Field Sampling	
480-154852-6	9ABCLD	Total/NA	Leachate	Field Sampling	

Analysis Batch: 478136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154927-1	45SD	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 12ABLD

Date Collected: 06/12/19 15:15
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-1

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477945	06/15/19 19:28	AMM	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		1	479041	06/21/19 19:48	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:22	EMB	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479425	06/25/19 00:03	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:57	BMB	TAL BUF
Total/NA	Analysis	310.2		4	479427	06/24/19 17:01	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481370	07/09/19 15:50	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477727	06/13/19 21:45	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		5	481256	07/08/19 18:29	KEB	TAL BUF
Total/NA	Analysis	9251		1	481390	07/09/19 14:55	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 09:00	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 05:49	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 15:15	FLD	TAL BUF

Client Sample ID: 11ABCLD

Date Collected: 06/12/19 15:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-2

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	477945	06/15/19 19:52	AMM	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		1	479041	06/21/19 20:16	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:26	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 14:59	BMB	TAL BUF
Total/NA	Analysis	310.2		4	479427	06/24/19 15:58	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	481370	07/09/19 15:51	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477727	06/13/19 21:46	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		10	481256	07/08/19 18:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	479428	06/24/19 14:11	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 11ABCLD

Lab Sample ID: 480-154852-2

Date Collected: 06/12/19 15:50
Matrix: Leachate
Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 09:06	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 06:03	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 15:50	FLD	TAL BUF

Client Sample ID: 12LD

Lab Sample ID: 480-154852-3

Date Collected: 06/12/19 11:15
Matrix: Leachate
Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	478042	06/17/19 12:31	AEM	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		1	479041	06/21/19 20:45	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:29	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 15:00	BMB	TAL BUF
Total/NA	Analysis	310.2		8	479427	06/24/19 16:08	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		10	481370	07/09/19 15:52	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477727	06/13/19 21:49	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		1	481256	07/08/19 18:07	KEB	TAL BUF
Total/NA	Analysis	9251		15	479428	06/24/19 16:04	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 07:23	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 06:18	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 11:15	FLD	TAL BUF

Client Sample ID: 10ABLD

Lab Sample ID: 480-154852-4

Date Collected: 06/12/19 16:30
Matrix: Leachate
Date Received: 06/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	478042	06/17/19 12:55	AEM	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		1	479041	06/21/19 21:13	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:33	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 15:01	BMB	TAL BUF
Total/NA	Analysis	310.2		4	479427	06/24/19 16:08	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 10ABLD

Date Collected: 06/12/19 16:30
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-4

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		100	481370	07/09/19 15:53	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477729	06/13/19 23:57	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		25	481256	07/08/19 18:34	KEB	TAL BUF
Total/NA	Analysis	9251		50	481390	07/09/19 15:36	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 09:17	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 06:34	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 16:30	FLD	TAL BUF

Client Sample ID: 7LD

Date Collected: 06/12/19 13:10
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-5

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478042	06/17/19 13:18	AEM	TAL BUF
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		1	479041	06/21/19 21:42	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:37	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 15:02	BMB	TAL BUF
Total/NA	Analysis	310.2		4	479576	06/25/19 12:03	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481370	07/09/19 15:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477728	06/13/19 20:02	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		10	481256	07/08/19 18:18	KEB	TAL BUF
Total/NA	Analysis	9251		20	479577	06/25/19 09:47	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 07:55	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 06:49	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 13:10	FLD	TAL BUF

Client Sample ID: 9ABCLD

Date Collected: 06/12/19 13:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-6

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478042	06/17/19 13:42	AEM	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: 9ABCLD

Date Collected: 06/12/19 13:50
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-6

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			477897	06/14/19 15:11	ATG	TAL BUF
Total/NA	Analysis	8270D		10	479041	06/21/19 22:10	PJQ	TAL BUF
Total/NA	Prep	3005A			477677	06/14/19 07:45	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479249	06/22/19 22:52	EMB	TAL BUF
Total/NA	Prep	7470A			477814	06/14/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	477900	06/14/19 15:04	BMB	TAL BUF
Total/NA	Analysis	310.2		6	479576	06/25/19 12:03	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481358	07/09/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		10	481370	07/09/19 15:49	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477729	06/13/19 23:59	SMH	TAL BUF
Total/NA	Analysis	410.4		1	479499	06/25/19 11:04	EAG	TAL BUF
Total/NA	Analysis	9038		10	481256	07/08/19 18:18	KEB	TAL BUF
Total/NA	Analysis	9251		10	479577	06/25/19 13:21	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478246	06/18/19 07:49	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	478328	06/18/19 10:19	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	480633	06/18/19 08:00	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481026	07/06/19 07:04	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477857	06/12/19 13:50	FLD	TAL BUF

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-7

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478042	06/17/19 14:06	AEM	TAL BUF

Client Sample ID: 45SD

Date Collected: 06/13/19 11:35
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-1

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478257	06/18/19 14:13	OMI	TAL BUF
Total/NA	Prep	3510C			478248	06/18/19 07:53	JMP	TAL BUF
Total/NA	Analysis	8270D		1	479705	06/26/19 18:11	RJS	TAL BUF
Total/NA	Prep	3005A			478172	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478542	06/19/19 00:30	AMH	TAL BUF
Total/NA	Prep	3005A			478172	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478875	06/20/19 10:23	AMH	TAL BUF
Total/NA	Prep	7470A			478575	06/19/19 11:40	BMB	TAL BUF
Total/NA	Analysis	7470A		1	478665	06/19/19 15:07	BMB	TAL BUF
Total/NA	Analysis	310.2		3	479741	06/26/19 11:26	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481490	07/10/19 13:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481614	07/11/19 09:02	CLT	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-154852-1
Project/Site: Crossroads ME-Ann Underdrain

Client Sample ID: 45SD
Lab Sample ID: 480-154927-1
Date Collected: 06/13/19 11:35
Matrix: Leachate
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	477924	06/14/19 18:36	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480286	06/30/19 09:30	EAG	TAL BUF
Total/NA	Analysis	9038		2	481426	07/09/19 14:29	KEB	TAL BUF
Total/NA	Analysis	9251		2	481390	07/09/19 14:50	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478576	06/19/19 10:48	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478791	06/20/19 10:06	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	482057	06/14/19 09:47	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 04:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	478136	06/13/19 11:35	FLD	TAL BUF

Client Sample ID: TB
Lab Sample ID: 480-154927-2
Date Collected: 06/13/19 00:00
Matrix: Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478467	06/19/19 02:58	RJF	TAL BUF

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154852-1
Project/Site: Crossroads ME-Ann Underdrain

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Leachate	Sulfate
9251		Leachate	Chloride
Field Sampling		Leachate	Field EH/ORP
Field Sampling		Leachate	Field pH
Field Sampling		Leachate	Oxygen, Dissolved
Field Sampling		Leachate	Specific Conductance
Field Sampling		Leachate	Temperature
Field Sampling		Leachate	Turbidity

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154852-1	12ABLD	Leachate	06/12/19 15:15	06/13/19 09:00	
480-154852-2	11ABCLD	Leachate	06/12/19 15:50	06/13/19 09:00	
480-154852-3	12LD	Leachate	06/12/19 11:15	06/13/19 09:00	
480-154852-4	10ABLD	Leachate	06/12/19 16:30	06/13/19 09:00	
480-154852-5	7LD	Leachate	06/12/19 13:10	06/13/19 09:00	
480-154852-6	9ABCLD	Leachate	06/12/19 13:50	06/13/19 09:00	
480-154852-7	TB	WQ	06/12/19 00:00	06/13/19 09:00	
480-154927-1	45SD	Leachate	06/13/19 11:35	06/14/19 09:00	
480-154927-2	TB	Water	06/13/19 00:00	06/14/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-154852-1
Project/Site: Crossroads ME-Ann Underdrain

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Aluminum	Leachate	Total/NA	mg/L	0.080	0.20
6010C	Arsenic	Leachate	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Leachate	Total/NA	mg/L	0.15	0.50
6010C	Iron	Leachate	Total/NA	mg/L	0.030	0.05
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Sodium	Leachate	Total/NA	mg/L	0.40	1.0
9251	Chloride	Leachate	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Leachate	Total/NA	mg/L	5.0	10

June 21, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5887
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/21/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-1
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
7LD	AQ	12-JUN-19 13:10:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG254942	18-JUN-19 07:55:00	SM 5210B	13-JUN-19 1003	BR		

Katahdin Analytical Services SM5887 page 0000003 of 0000014

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-2
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
9ABCLD	AQ	12-JUN-19 13:50:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	5.9 mg/L	5.0	0.59	SM 5210B	WG254942	18-JUN-19 08:00:00	SM 5210B	13-JUN-19 1014	BR		

Katahdin Analytical Services SM5887 page 0000004 of 0000014

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-3
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
10ABLD	AQ	12-JUN-19 15:15:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	17. mg/L	8.0	0.93	SM 5210B	WG254942	18-JUN-19 09:00:00	SM 5210B	13-JUN-19 1052	BR		

Katahdin Analytical Services SM5887 page 0000005 of 0000014

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-4
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
11ABCLD	AQ	12-JUN-19 15:50:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	11. mg/L	5.1	0.60	SM 5210B	WG254942	18-JUN-19 09:06:00	SM 5210B	13-JUN-19 1055	BR		

Katahdin Analytical Services SM5887 page 0000006 of 0000014

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-5
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
12LD	AQ	12-JUN-19 11:15:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	12. mg/L	10.	1.2	SM 5210B	WG254942	18-JUN-19 07:23:00	SM 5210B	13-JUN-19 946	BR		

Katahdin Analytical Services SM5887 page 0000007 of 0000014

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5887-6
Report Date: 20-JUN-19
Client PO: 6113107001
Project: Waste Management - Crossroads
SDG: SM5887

Sample Description	Matrix	Date Sampled	Date Received
12ABLD	AQ	12-JUN-19 16:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG254942	18-JUN-19 09:17:00	SM 5210B	13-JUN-19 1114	BR		

Katahdin Analytical Services SM5887 page 0000008 of 0000014

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG254942	SM 5210B	18-JUN-19	13-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG254942-2	LCS	WG254942	18-JUN-19	13-JUN-19	mg/L	198	220	109	85-115	

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Crossroads	KAS PM: GN	Sampled By: KA	
Project:	KIMS Entry By: JCB	Delivered By: KA	
KAS Work Order#: SM5887	KIMS Review By: GN	Received By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 4/12/19 1920	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): 4.2°C
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				/	
Soil/Sediment:					
Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	/				
Sulfide - >9				/	
Cyanide – pH >12				/	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):	Address:		
Sampler (Print/Sign): Katrina Aman, Nick Adams/ KA			Copies To:

LAB USE ONLY Work Order #: **SM 5887**
Katahdin Project Number
Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	7LD	6/12/2019 1310	AQ	1	1										
	9ABCLD	6/12/2019 1350	AQ	1	1										
	10ABLD	6/12/2019 1515	AQ	1	1										
	11ABCLD	6/12/2019 1550	AQ	1	1										
	12LD	6/12/2019 1115	AQ	1	1										
	12ABLD	6/12/2019 1630	AQ	1	1										
	ABTD	6/12/2019	AQ	0	Site has been decommissioned										
	5ABLD	6/12/2019	AQ	0	Site dry, no sample taken										
	4ABLD	6/12/2019	AQ	0	Site dry, no sample taken										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Katrina Aman KA	6/13/19 0820				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 13, 2019
04:10 PM

Login Number: SM5887

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	6113107001
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	4.2
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-1	7LD	12-JUN-19 13:10	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-2	9ABCLD	12-JUN-19 13:50	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-3	10ABLD	12-JUN-19 15:15	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-4	11ABCLD	12-JUN-19 15:50	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-5	12LD	12-JUN-19 11:15	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-6	12ABLD	12-JUN-19 16:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	14-JUN-19	250mL Plastic		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-7	ABTD	12-JUN-19 00:00	13-JUN-19			25-JUN-19	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Site has been decommissioned

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 13, 2019

04:10 PM

Login Number: SM5887

Quote/Incoming:

Account: STL001 NoWeb

Severn Trent Laboratories

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-8	5ABLD	12-JUN-19 00:00	13-JUN-19			25-JUN-19	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Site dry, no sample taken

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5887-9	4ABLD	12-JUN-19 00:00	13-JUN-19			25-JUN-19	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Site dry, no sample taken

Total Samples: *6* ***Total Analyses:*** *6*

June 25, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5950
Project ID: Waste Management Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/25/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-1
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
GARAGE	AQ	13-JUN-19 14:00:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:55:00	SM 5210B	14-JUN-19 954	BR		

Katahdin Analytical Services SM5950 page 0000003 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-2
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	13-JUN-19 16:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	83. mg/L	80.	9.3	SM 5210B	WG255414	19-JUN-19 09:59:00	SM 5210B	14-JUN-19 958	BR		

Katahdin Analytical Services SM5950 page 0000004 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-3
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TOTMAN	AQ	13-JUN-19 13:33:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:51:00	SM 5210B	14-JUN-19 950	BR		

Katahdin Analytical Services SM5950 page 0000005 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-5
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
45SD	AQ	13-JUN-19 11:35:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	4.4 mg/L	3.0	0.35	SM 5210B	WG255414	19-JUN-19 09:48:00	SM 5210B	14-JUN-19 947	BR		

Katahdin Analytical Services SM5950 page 0000006 of 0000012

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG255414	SM 5210B	19-JUN-19	14-JUN-19	U 1.0 mg/L	2.0 mg/L

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services SM5950 page 0000007 of 0000012

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG255414-2	LCS	WG255414	19-JUN-19	14-JUN-19	mg/L	198	210	104	85-115	

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM5950
Waste Management
Project: Crossroads
Client PO:
Report Date: 25-JUN-19

Lab ID: SM5950-1 **Client ID:** GARAGE **Collected Date:** 13-JUN-19 14:00:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

Lab ID: SM5950-2 **Client ID:** TANK **Collected Date:** 13-JUN-19 16:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	75 /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	Colilert/Quantitray

Lab ID: SM5950-4 **Client ID:** TRANS **Collected Date:** 13-JUN-19 14:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: TEST AMERICA	KAS PM: GN	Sampled By: LC NA
Project: CROSSROADS	KIMS Entry By: GN	Delivered By: NA
KAS Work Order#: SM 5950	KIMS Review By: SC	Received By: ~~GB~~ NA
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/13/19 1945

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 2.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman, Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 5950**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	T-Collform	E-Coliform	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	Garage	6/13/2019 1400	AQ	2	1	1											
	TANK	6/13/2019 1630	AQ	2	1		1										
	Totman	6/13/2019 1333	AQ	1	1												
	TRANS	6/13/2019 1430	AQ	1		1											
	45SD	6/13/2019 1135	AQ	1	1												

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	6/13/19 1945				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 14, 2019
08:46 AM

Login Number: SM5950

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	2.9
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5950-1	GARAGE	13-JUN-19 14:00	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-2	TANK	13-JUN-19 16:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_ECOLI_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-3	TOTMAN	13-JUN-19 13:33	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-4	TRANS	13-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			

SM5950-5	45SD	13-JUN-19 11:35	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

Total Samples: **5** ***Total Analyses:*** **7**

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

480-154852 Chain of Custody

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com
Company: Katahdin Analytical Services		
Address: PO BOX 540 600 Technology Way	Due Date Requested:	
City: Scarborough	TAT Requested (days):	
State, Zip: ME, 04074		
Phone:	PO #: Purchase Order Requested	
Email: nadams@katahdinlab.com	WO #:	
Project Name: Crossroads ME/ Event Desc: Annual Underdrain Leak Detection	Project #: 48003284	
Site: Maine	SSOW#:	

Analysis

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Semi Volatile Phenols	350.1, 410.4	6010C, 7470A	8260C - Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	A	N	N	N	N	N	N				
10ABLD	6/12/19	1515	C	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	* BOD's were
11ABCLD	↓	1550	C	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	subbed to
12LD (doesn't include 3LD)	↓	1115	C	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	Katahdin
~~12ABLD~~				Water																	
~~45SB~~				Water																	
~~4ABLD~~				Water																	
~~5ABLD~~				Water																	
~~7LD~~				Water																	
~~9ABCLD~~				Water																	
TB				Water						1										1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	6/12/19 1800	KAS	[signature]	6/13/19 0900	TAB
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128061-28922.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Annual Underdrain Leak Detection	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Semi Volatile Phenols	350.1, 410.4	6010C, 7470A	8260C - Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	A	N	N	N	N	N	N				
~~10ABLD~~				Water																	
11ABCLD				Water																	
~~12SLD~~				Water																	
12ABLD	6/12/19	1630	C	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	* BOD's were subbed to Katahdin
~~45GD~~				Water																	
~~4ABLD~~				Water																	
~~5ABLD~~				Water																	
7LD	6/12/19	1310	G	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	
9ABCLD	↓	1350	C	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	
TB				Water						1										1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: A Adams	Date/Time: 6/12/19 1800	Company: KAS	Received by: Cwallace	Date/Time: 6/13/19 0900	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128061-28922.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Underdrain Leak Detection	Project #: 48003284			
Site: Maine	SSOW#:			

480-154927 Chain of Custody

H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Semi Volatile Phenols	350.1, 410.4	6010C, 7470A	8260C - Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total			Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	S	D	A	A	N	N	N	N	N	N				
~~10ABLD~~				Water																	
~~11ABCLD~~				Water																	
~~12ILD~~				Water																	
~~12ABLD~~				Water																	
45SD	6/13/19	1135	G	Water	N	N	2	1	1	3	2	0	1	1	X	2	1			14	* BOD HAS BEEN SUBBED TO KATAHDIN
~~4ABLD~~				Water																	
~~5ABLD~~				Water																	
~~7LD~~				Water																	
~~9ABCLD~~				Water																	
TB				Water						1										1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	6/13/19 1800	KAS	[signature]	6/14/19 0900	TAL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.7

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 10ABLD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: ____ Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl) Depth to Water (DTW) (from TOC) ____ (ft) Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft) Stick Up (from ground elevation) ____ (ft) Casing ID ____ (in) Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
05 12 19	7.05	8978	18.9	6.6	6.9	853	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Slight Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/12/19	Katrina Aman	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Cross roads

Site No.:

Sample Point: 1 1 1 A B C L D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	~~PURGE TIME~~ (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 12 19	7.39	1708	21.0	1.48	6.2	98.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 12LD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/12/19	6.65	3171	18.9	28.4	4.5	128.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: Slight Color: Lt Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

DOES NOT INCLUDE 3LD. SITE DRY.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
6/12/19	Katrina Aman		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSS ROADS

Site No.:

Sample Point: 12ABLD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: ✓

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ✓ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/12/19	7.36	1061	20.6	21	6.8	288	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | Sample Point: 7LD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: —

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06 12 19	7.17	~~2526~~ 2526	23.2	1.19	5.9	726	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): *Conductance = 2526

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/12/19	Katrina Aman		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 9 A B C L D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: ✓

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: ✓ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 12 19	7.34	2475	24.8	36	4.9	886	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 5-10 Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05, 12, 19	Katrina Arman	Katrina Arman	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 45SD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 13 19	7.47	661	13.4	58	1.07	210.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154852-1

Login Number: 154852
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154852-1

Login Number: 154927
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154910-1
Client Project/Site: Crossroads ME-Ann DW Garage, Office,etc
Sampling Event: Annual DW TOTMAN, Garage, New Office (4)
Annual Groundwater (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Denise L Giglia

Authorized for release by:
8/6/2019 4:32:13 PM

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154910-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154910-1

Receipt
The samples were received on 6/14/2019 9:00 AM and 6/15/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6º C and 2.6º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-478054 recovered above the upper control limit for Tetrachloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: Garage (480-154910-1) and TOTMAN (480-154910-3).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-478054 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.The following samples are impacted: Garage (480-154910-1) and TOTMAN (480-154910-3).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-478467 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone, and 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The method blank for preparation batch 480-478126 and analytical batch 480-478540 contained Total Iron above the client reporting limit. This target analyte concentration was less than the laboratory's standard reporting limit (RL); therefore, re-extraction and/or re-analysis of samples New Office (480-154949-3) was not performed.

Method(s) 6010C: The Total Iron results reported for the following sample do not concur with results previously reported for this site: Garage (480-154910-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 410.4: The Chemical Oxygen Demand results reported for the following sample do not concur with results previously reported for this site: New Office (480-154949-3). Reanalysis was performed, and the result(s) confirmed.

Method(s) 9251: The laboratory control sample (LCS) for analytical batch 480-481257 recovered outside control limits for the following analytes: Chloride. These analytes were biased high in the LCS and were not detected above reporting limits (RL) in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

Client Sample ID: Garage — Lab Sample ID: 480-154910-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.1		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	5.9		0.40		mg/L	1		6010C	Total/NA
Uranium	0.00484		0.001		ug/L	5		6020	Total/NA
Alkalinity, Total	51		10		mg/L	1		310.2	Total/NA
Sulfate	9.0		5.0		mg/L	1		9038	Total/NA
pH	8.2		0.1		SU	1		9040C	Total/NA
Temperature	20.7		0.001		Degrees C	1		9040C	Total/NA
Chloride	1.2		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	85		5.0		mg/L	1		SM 2540C	Total/NA
Coliform, Total	Absent		1		CFU/100mL	1		SM 9222B	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
Field pH	8.67				SU	1		Field Sampling	Total/NA
Specific Conductance	120				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	122.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: New Office — Lab Sample ID: 480-154910-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Turbidity	1.9				NTU	1		Field Sampling	Total/NA
Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.68				SU	1		Field Sampling	Total/NA
Specific Conductance	138				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	210.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TOTMAN — Lab Sample ID: 480-154910-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.024		0.0090		mg/L	1		6010C	Total/NA
Calcium	12		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.6		0.24		mg/L	1		6010C	Total/NA
Potassium	2.5		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	59		10		mg/L	1		310.2	Total/NA
Nitrate	0.080		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.3		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	97		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.6				NTU	1		Field Sampling	Total/NA
Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field pH	8.03				SU	1		Field Sampling	Total/NA
Specific Conductance	139				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	173.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.31				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

Client Sample ID: New Office

Lab Sample ID: 480-154949-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	2.7		0.15		mg/L	1		6010C	Total/NA
Copper	0.072		0.025		mg/L	1		6010C	Total/NA
Iron	0.060	BL	0.030		mg/L	1		6010C	Total/NA
Magnesium	0.49		0.24		mg/L	1		6010C	Total/NA
Potassium	0.64		0.20		mg/L	1		6010C	Total/NA
Sodium	36		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	79		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	11		10		mg/L	1		410.4	Total/NA
pH	9.1		0.1		SU	1		9040C	Total/NA
Temperature	20.4		0.001		Degrees C	1		9040C	Total/NA
Chloride	0.97		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		4.0		mg/L	1		SM 2540D	Total/NA
Coliform, Total	Absent		1		CFU/100mL	1		SM 9222B	Total/NA
Turbidity	1.1				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	9.16				SU	1		Field Sampling	Total/NA
Specific Conductance	163				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-229.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.4				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Garage
Date Collected: 06/13/19 14:00
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154910-1
Matrix: Drinking Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 13:02	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 13:02	1
2-Butanone	ND	U	10		ug/L			06/17/19 13:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 13:02	1
Acetone	ND	U	10		ug/L			06/17/19 13:02	1
Benzene	ND	U	1.0		ug/L			06/17/19 13:02	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 13:02	1
Bromoform	ND	U	1.0		ug/L			06/17/19 13:02	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 13:02	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 13:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 13:02	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 13:02	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 13:02	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 13:02	1
Chloroform	ND	U	1.0		ug/L			06/17/19 13:02	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 13:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:02	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 13:02	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 13:02	1
Styrene	ND	U	1.0		ug/L			06/17/19 13:02	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/17/19 13:02	1
Toluene	ND	U	1.0		ug/L			06/17/19 13:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 13:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 13:02	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 13:02	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 13:02	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 13:02	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/17/19 13:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/17/19 13:02*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*06/17/19 13:02*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/17/19 13:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		06/17/19 07:06	06/18/19 16:05	1
Calcium	**16**		0.15		mg/L		06/17/19 07:06	06/18/19 16:05	1
Iron	ND	U	0.030		mg/L		06/17/19 07:06	06/18/19 16:05	1
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/18/19 16:05	1
Magnesium	**2.1**		0.24		mg/L		06/17/19 07:06	06/18/19 16:05	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 16:05	1

Client Sample ID: Garage
Date Collected: 06/13/19 14:00
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154910-1
Matrix: Drinking Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.9**		0.20		mg/L		06/17/19 07:06	06/18/19 16:05	1
Sodium	**5.9**		0.40		mg/L		06/17/19 07:06	06/18/19 16:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020		mg/L		06/17/19 06:55	06/21/19 14:27	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.00484**		0.001		ug/L			07/24/19 12:00	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/18/19 11:30	06/18/19 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**51**		10		mg/L			06/25/19 13:02	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:48	1
Nitrate	ND	U	0.050		mg/L as N			06/14/19 18:27	1
Nitrite	ND	U	0.050		mg/L as N			06/14/19 18:27	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/29/19 10:31	1
Sulfate	**9.0**		5.0		mg/L			07/09/19 16:07	1
Chloride	**1.2**		0.50		mg/L			06/25/19 09:40	1
Total Dissolved Solids	**85**		5.0		mg/L			06/19/19 10:48	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/19/19 09:55	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 02:41	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.1		SU			06/18/19 14:58	1
Temperature	**20.7**		0.001		Degrees C			06/18/19 14:58	1
Total Suspended Solids	ND	U	4.0		mg/L			06/19/19 12:05	1

Method: SM 9222B - Coliforms, Total (Membrane Filter)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	**Absent**		1		CFU/100mL			06/14/19 20:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			06/13/19 14:00	1
Temperature	**10.1**				Degrees C			06/13/19 14:00	1
Field pH	**8.67**				SU			06/13/19 14:00	1
Specific Conductance	**120**				umhos/cm			06/13/19 14:00	1
Field EH/ORP	**122.8**				millivolts			06/13/19 14:00	1
Oxygen, Dissolved	**2.5**				mg/L			06/13/19 14:00	1

Client Sample Results

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Client Sample ID: New Office
Lab Sample ID: 480-154910-2
Date Collected: 06/13/19 16:20
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	1.9				NTU			06/13/19 16:20	1
Temperature	9.5				Degrees C			06/13/19 16:20	1
Field pH	8.68				SU			06/13/19 16:20	1
Specific Conductance	138				umhos/cm			06/13/19 16:20	1
Field EH/ORP	210.6				millivolts			06/13/19 16:20	1
Oxygen, Dissolved	3.2				mg/L			06/13/19 16:20	1

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

Client Sample ID: TOTMAN

Date Collected: 06/13/19 13:33
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154910-3

Matrix: Drinking Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
1,1,2-Trichloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
1,1-Dichloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
1,1-Dichloroethene	ND	U	1.0	ug/L			06/17/19 13:28	1
1,2-Dichloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
1,2-Dichloropropane	ND	U	1.0	ug/L			06/17/19 13:28	1
2-Hexanone	ND	U	5.0	ug/L			06/17/19 13:28	1
2-Butanone	ND	U	10	ug/L			06/17/19 13:28	1
4-Methyl-2-pentanone	ND	U	5.0	ug/L			06/17/19 13:28	1
Acetone	ND	U	10	ug/L			06/17/19 13:28	1
Benzene	ND	U	1.0	ug/L			06/17/19 13:28	1
Bromodichloromethane	ND	U	1.0	ug/L			06/17/19 13:28	1
Bromoform	ND	U	1.0	ug/L			06/17/19 13:28	1
Bromomethane	ND	U	1.0	ug/L			06/17/19 13:28	1
Carbon disulfide	ND	U	1.0	ug/L			06/17/19 13:28	1
Carbon tetrachloride	ND	U	1.0	ug/L			06/17/19 13:28	1
Chlorobenzene	ND	U	1.0	ug/L			06/17/19 13:28	1
Dibromochloromethane	ND	U	1.0	ug/L			06/17/19 13:28	1
Chloroethane	ND	U	1.0	ug/L			06/17/19 13:28	1
Chloroform	ND	U	1.0	ug/L			06/17/19 13:28	1
Chloromethane	ND	U	1.0	ug/L			06/17/19 13:28	1
cis-1,2-Dichloroethene	ND	U	1.0	ug/L			06/17/19 13:28	1
cis-1,3-Dichloropropene	ND	U	1.0	ug/L			06/17/19 13:28	1
Ethylbenzene	ND	U	1.0	ug/L			06/17/19 13:28	1
Methylene Chloride	ND	U	1.0	ug/L			06/17/19 13:28	1
Styrene	ND	U	1.0	ug/L			06/17/19 13:28	1
Tetrachloroethene	ND	U *	1.0	ug/L			06/17/19 13:28	1
Toluene	ND	U	1.0	ug/L			06/17/19 13:28	1
trans-1,2-Dichloroethene	ND	U	1.0	ug/L			06/17/19 13:28	1
trans-1,3-Dichloropropene	ND	U	1.0	ug/L			06/17/19 13:28	1
Trichloroethene	ND	U	1.0	ug/L			06/17/19 13:28	1
Vinyl acetate	ND	U	5.0	ug/L			06/17/19 13:28	1
Vinyl chloride	ND	U	1.0	ug/L			06/17/19 13:28	1
Xylenes, Total	ND	U	2.0	ug/L			06/17/19 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/17/19 13:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/17/19 13:28*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*06/17/19 13:28*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/17/19 13:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.024**		0.0090	mg/L		06/17/19 07:06	06/18/19 16:12	1
Calcium	**12**		0.15	mg/L		06/17/19 07:06	06/18/19 16:12	1
Iron	ND	U	0.030	mg/L		06/17/19 07:06	06/18/19 16:12	1
Lead	ND	U	0.0050	mg/L		06/17/19 07:06	06/18/19 16:12	1
Magnesium	**2.6**		0.24	mg/L		06/17/19 07:06	06/18/19 16:12	1
Manganese	ND	U	0.010	mg/L		06/17/19 07:06	06/18/19 16:12	1

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Client Sample ID: TOTMAN
Lab Sample ID: 480-154910-3
Date Collected: 06/13/19 13:33
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**2.5**		0.20		mg/L		06/17/19 07:06	06/18/19 16:12	1
Sodium	**12**		0.40		mg/L		06/17/19 07:06	06/18/19 16:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020		mg/L		06/17/19 06:55	06/21/19 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**59**		10		mg/L			06/25/19 13:02	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 11:10	1
Nitrate	**0.080**		0.050		mg/L as N			06/14/19 21:34	1
Chemical Oxygen Demand	ND	U	10		mg/L			06/29/19 10:31	1
Sulfate	ND	U	5.0		mg/L			07/09/19 16:08	1
Chloride	**2.3**		0.50		mg/L			06/25/19 09:40	1
Total Dissolved Solids	**97**		5.0		mg/L			06/19/19 10:48	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/19/19 09:55	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 03:25	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			06/19/19 12:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.6**				NTU			06/13/19 13:33	1
Temperature	**9.3**				Degrees C			06/13/19 13:33	1
Field pH	**8.03**				SU			06/13/19 13:33	1
Specific Conductance	**139**				umhos/cm			06/13/19 13:33	1
Field EH/ORP	**173.8**				millivolts			06/13/19 13:33	1
Oxygen, Dissolved	**8.8**				mg/L			06/13/19 13:33	1
Depth to Water from Top of Casing	**19.31**				ft			06/13/19 13:33	1

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Client Sample ID: New Office
Lab Sample ID: 480-154949-3
Date Collected: 06/14/19 16:30
Matrix: Water
Date Received: 06/15/19 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:46	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 05:46	1
2-Butanone	ND	U	10		ug/L			06/19/19 05:46	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 05:46	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 05:46	1
Acetone	ND	U	10		ug/L			06/19/19 05:46	1
Benzene	ND	U	1.0		ug/L			06/19/19 05:46	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 05:46	1
Bromoform	ND	U	1.0		ug/L			06/19/19 05:46	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 05:46	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 05:46	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 05:46	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 05:46	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 05:46	1
Chloroform	ND	U	1.0		ug/L			06/19/19 05:46	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 05:46	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:46	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 05:46	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 05:46	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 05:46	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 05:46	1
Styrene	ND	U	1.0		ug/L			06/19/19 05:46	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 05:46	1
Toluene	ND	U	1.0		ug/L			06/19/19 05:46	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 05:46	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 05:46	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 05:46	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 05:46	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 05:46	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/19/19 05:46*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*06/19/19 05:46*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/19/19 05:46*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/19/19 05:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 20:47	1
Barium	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 20:47	1
Calcium	**2.7**		0.15		mg/L		06/18/19 07:04	06/18/19 20:47	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 20:47	1
Copper	**0.072**		0.025		mg/L		06/18/19 07:04	06/18/19 20:47	1
Iron	**0.060**	**BL**	0.030		mg/L		06/18/19 07:04	06/18/19 20:47	1

Client Sample ID: New Office
Lab Sample ID: 480-154949-3

Date Collected: 06/14/19 16:30
Matrix: Water
Date Received: 06/15/19 09:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 20:47	1
Magnesium	**0.49**		0.24		mg/L		06/18/19 07:04	06/18/19 20:47	1
Manganese	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 20:47	1
Potassium	**0.64**		0.20		mg/L		06/18/19 07:04	06/18/19 20:47	1
Sodium	**36**		0.40		mg/L		06/18/19 07:04	06/18/19 20:47	1
Vanadium	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 20:47	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 20:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Uranium	ND	U	0.001		ug/L			07/24/19 12:00	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/19/19 11:40	06/19/19 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**79**		10		mg/L			06/27/19 19:45	1
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 10:13	1
Nitrate	ND	U	0.050		mg/L as N			06/15/19 11:51	1
Nitrite	ND	U	0.050		mg/L as N			06/15/19 11:51	1
Chemical Oxygen Demand	**11**		10		mg/L			06/29/19 09:43	1
Sulfate	ND	U	5.0		mg/L			07/09/19 14:34	1
Chloride	**0.97**		0.50		mg/L			07/08/19 19:08	1
Total Dissolved Solids	**110**		5.0		mg/L			06/20/19 11:06	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/15/19 12:35	1
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 05:39	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**		0.1		SU			06/18/19 15:30	1
Temperature	**20.4**		0.001		Degrees C			06/18/19 15:30	1
Total Suspended Solids	**5.6**		4.0		mg/L			06/20/19 10:15	1

Method: SM 9222B - Coliforms, Total (Membrane Filter)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	**Absent**		1		CFU/100mL			06/15/19 10:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.1**				NTU			06/14/19 16:30	1
Temperature	**9.9**				Degrees C			06/14/19 16:30	1
Field pH	**9.16**				SU			06/14/19 16:30	1
Specific Conductance	**163**				umhos/cm			06/14/19 16:30	1
Field EH/ORP	**-229.0**				millivolts			06/14/19 16:30	1
Oxygen, Dissolved	**7.4**				mg/L			06/14/19 16:30	1

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-154910-1	Garage	105	101	110	102
480-154910-3	TOTMAN	102	103	112	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-154949-3	New Office	96	91	97	93
LCS 480-478054/5	Lab Control Sample	102	115	102	105
LCS 480-478467/5	Lab Control Sample	96	96	93	94
MB 480-478054/7	Method Blank	104	111	104	105
MB 480-478467/8	Method Blank	96	93	97	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-478054/7
Matrix: Water
Analysis Batch: 478054

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 11:02	1
2-Butanone	ND	U	10		ug/L			06/17/19 11:02	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 11:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 11:02	1
Acetone	ND	U	10		ug/L			06/17/19 11:02	1
Benzene	ND	U	1.0		ug/L			06/17/19 11:02	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 11:02	1
Bromoform	ND	U	1.0		ug/L			06/17/19 11:02	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 11:02	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 11:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 11:02	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 11:02	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 11:02	1
Chloroform	ND	U	1.0		ug/L			06/17/19 11:02	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 11:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 11:02	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 11:02	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 11:02	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 11:02	1
Styrene	ND	U	1.0		ug/L			06/17/19 11:02	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 11:02	1
Toluene	ND	U	1.0		ug/L			06/17/19 11:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 11:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 11:02	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 11:02	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 11:02	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 11:02	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/17/19 11:02*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/17/19 11:02*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*06/17/19 11:02*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/17/19 11:02*	*1*

Lab Sample ID: LCS 480-478054/5
Matrix: Water
Analysis Batch: 478054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	29.0		ug/L		116	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478054/5
Matrix: Water
Analysis Batch: 478054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	76 - 122
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	26.2		ug/L		105	66 - 127
1,2-Dichloroethane	25.0	27.7		ug/L		111	75 - 120
1,2-Dichloropropane	25.0	28.1		ug/L		112	76 - 120
2-Butanone	125	131		ug/L		105	57 - 140
2-Hexanone	125	118		ug/L		95	65 - 127
4-Methyl-2-pentanone	125	115		ug/L		92	71 - 125
Acetone	125	122		ug/L		97	56 - 142
Benzene	25.0	28.6		ug/L		114	71 - 124
Bromodichloromethane	25.0	27.4		ug/L		110	80 - 122
Bromoform	25.0	24.8		ug/L		99	61 - 132
Bromomethane	25.0	26.0		ug/L		104	55 - 144
Carbon disulfide	25.0	23.9		ug/L		96	59 - 134
Carbon tetrachloride	25.0	29.6		ug/L		118	72 - 134
Chlorobenzene	25.0	29.3		ug/L		117	80 - 120
Chloroethane	25.0	23.8		ug/L		95	69 - 136
Chloroform	25.0	26.8		ug/L		107	73 - 127
Chloromethane	25.0	22.4		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	29.6		ug/L		118	74 - 124
Dibromochloromethane	25.0	26.6		ug/L		107	75 - 125
Ethylbenzene	25.0	27.8		ug/L		111	77 - 123
Methylene Chloride	25.0	25.4		ug/L		102	75 - 124
Styrene	25.0	27.6		ug/L		110	80 - 120
Tetrachloroethene	25.0	33.8	*	ug/L		135	74 - 122
Toluene	25.0	28.7		ug/L		115	80 - 122
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	80 - 120
Trichloroethene	25.0	30.1		ug/L		120	74 - 123
Vinyl acetate	50.0	50.5		ug/L		101	50 - 144
Vinyl chloride	25.0	23.0		ug/L		92	65 - 133
Xylenes, Total	50.0	55.5		ug/L		111	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/19/19 02:23	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/19/19 02:23	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-478467/8
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 02:23	1
2-Butanone	ND	U	10		ug/L			06/19/19 02:23	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 02:23	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 02:23	1
Acetone	ND	U	10		ug/L			06/19/19 02:23	1
Benzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromoform	ND	U	1.0		ug/L			06/19/19 02:23	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 02:23	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloroform	ND	U	1.0		ug/L			06/19/19 02:23	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 02:23	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 02:23	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Styrene	ND	U	1.0		ug/L			06/19/19 02:23	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Toluene	ND	U	1.0		ug/L			06/19/19 02:23	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:23	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 02:23	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 02:23	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 02:23	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/19/19 02:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/19/19 02:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/19/19 02:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/19/19 02:23*	*1*

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	23.8		ug/L		95	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	19.6		ug/L		78	76 - 120		
1,1,2-Trichloroethane			25.0	21.6		ug/L		86	76 - 122		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-478467/5
Matrix: Water
Analysis Batch: 478467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	20.7		ug/L		83	66 - 127
1,2-Dichloroethane	25.0	23.1		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
2-Butanone	125	154		ug/L		123	57 - 140
2-Hexanone	125	99.7		ug/L		80	65 - 127
4-Methyl-2-pentanone	125	98.6		ug/L		79	71 - 125
Acetone	125	89.1		ug/L		71	56 - 142
Benzene	25.0	23.1		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	22.8		ug/L		91	61 - 132
Bromomethane	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	21.9		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	74 - 124
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl acetate	50.0	48.2		ug/L		96	50 - 144
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133
Xylenes, Total	50.0	47.8		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-477893/1-A
Matrix: Water
Analysis Batch: 478451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477893

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		06/17/19 07:06	06/18/19 14:11	1
Calcium	ND	U	0.15	mg/L		06/17/19 07:06	06/18/19 14:11	1
Iron	ND	U	0.030	mg/L		06/17/19 07:06	06/18/19 14:11	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-477893/1-A
Matrix: Water
Analysis Batch: 478451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND	U	0.24		mg/L		06/17/19 07:06	06/18/19 14:11	1
Manganese	ND	U	0.010		mg/L		06/17/19 07:06	06/18/19 14:11	1
Potassium	ND	U	0.20		mg/L		06/17/19 07:06	06/18/19 14:11	1
Sodium	ND	U	0.40		mg/L		06/17/19 07:06	06/18/19 14:11	1

Lab Sample ID: MB 480-477893/1-A
Matrix: Water
Analysis Batch: 479154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		06/17/19 07:06	06/21/19 16:13	1

Lab Sample ID: LCS 480-477893/2-A
Matrix: Water
Analysis Batch: 478451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477893

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.200		mg/L		100	80 - 120		
Calcium			10.0	9.94		mg/L		99	80 - 120		
Iron			10.0	9.89		mg/L		99	80 - 120		
Magnesium			10.0	9.73		mg/L		97	80 - 120		
Manganese			0.200	0.197		mg/L		99	80 - 120		
Potassium			10.0	9.55		mg/L		95	80 - 120		
Sodium			10.0	9.43		mg/L		94	80 - 120		

Lab Sample ID: LCS 480-477893/2-A
Matrix: Water
Analysis Batch: 479154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477893

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.200	0.190		mg/L		95	80 - 120		

Lab Sample ID: MB 480-478126/1-A
Matrix: Water
Analysis Batch: 478540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478126

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/18/19 07:04	06/18/19 19:12	1
Barium	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 19:12	1
Calcium	ND	U	0.15		mg/L		06/18/19 07:04	06/18/19 19:12	1
Chromium	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 19:12	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 19:12	1
Iron	0.0476		0.030		mg/L		06/18/19 07:04	06/18/19 19:12	1
Lead	ND	U	0.0050		mg/L		06/18/19 07:04	06/18/19 19:12	1
Magnesium	ND	U	0.24		mg/L		06/18/19 07:04	06/18/19 19:12	1
Manganese	ND	U	0.010		mg/L		06/18/19 07:04	06/18/19 19:12	1
Potassium	ND	U	0.20		mg/L		06/18/19 07:04	06/18/19 19:12	1
Sodium	ND	U	0.40		mg/L		06/18/19 07:04	06/18/19 19:12	1
Vanadium	ND	U	0.025		mg/L		06/18/19 07:04	06/18/19 19:12	1
Zinc	ND	U	0.020		mg/L		06/18/19 07:04	06/18/19 19:12	1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 480-478126/2-A
Matrix: Water
Analysis Batch: 478540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	9.55		mg/L		96	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.195		mg/L		97	80 - 120
Iron	10.0	9.89		mg/L		99	80 - 120
Lead	0.200	0.187		mg/L		94	80 - 120
Magnesium	10.0	9.55		mg/L		95	80 - 120
Manganese	0.200	0.195		mg/L		97	80 - 120
Potassium	10.0	9.39		mg/L		94	80 - 120
Sodium	10.0	9.41		mg/L		94	80 - 120
Vanadium	0.200	0.195		mg/L		97	80 - 120
Zinc	0.200	0.192		mg/L		96	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-477892/1-A
Matrix: Water
Analysis Batch: 479119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477892

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020	mg/L		06/17/19 06:55	06/21/19 13:59	1

Lab Sample ID: LCS 480-477892/2-A
Matrix: Water
Analysis Batch: 479119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0200	0.0211		mg/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-478331/1-A
Matrix: Water
Analysis Batch: 478418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478331

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		06/18/19 11:30	06/18/19 15:04	1

Lab Sample ID: LCS 480-478331/2-A
Matrix: Water
Analysis Batch: 478418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00692		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-478575/1-A
Matrix: Water
Analysis Batch: 478665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478575

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		06/19/19 11:40	06/19/19 14:55	1

Lab Sample ID: LCS 480-478575/2-A
Matrix: Water
Analysis Batch: 478665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00678		mg/L		102	80 - 120		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-479576/12
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 12:02	1

Lab Sample ID: MB 480-479576/29
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 12:48	1

Lab Sample ID: MB 480-479576/67
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			06/25/19 15:10	1

Lab Sample ID: LCS 480-479576/13
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	54.2		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-479576/30
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.1		mg/L		104	90 - 110		

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-479576/68
Matrix: Water
Analysis Batch: 479576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: MB 480-480112/121
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			06/27/19 19:45	1

Lab Sample ID: LCS 480-480112/122
Matrix: Water
Analysis Batch: 480112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: 480-154949-3 MS
Matrix: Water
Analysis Batch: 480112

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	79		20.0	97.9		mg/L		95	60 - 140

Lab Sample ID: 480-154949-3 DU
Matrix: Water
Analysis Batch: 480112

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	79		76.9		mg/L		3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-479295/123
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/24/19 10:57	1

Lab Sample ID: MB 480-479295/147
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			06/24/19 11:17	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-479295/27
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:35	1

Lab Sample ID: MB 480-479295/51
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 09:55	1

Lab Sample ID: MB 480-479295/99
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			06/24/19 10:36	1

Lab Sample ID: LCS 480-479295/100
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: LCS 480-479295/124
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: LCS 480-479295/148
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: LCS 480-479295/28
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: LCS 480-479295/52
Matrix: Water
Analysis Batch: 479295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-480258/51
Matrix: Water
Analysis Batch: 480258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/29/19 09:43	1

Lab Sample ID: LCS 480-480258/52
Matrix: Water
Analysis Batch: 480258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.6		mg/L		110	90 - 110		

Lab Sample ID: 480-154949-3 MS
Matrix: Water
Analysis Batch: 480258

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	11		50.0	63.2		mg/L		104	75 - 125		

Lab Sample ID: 480-154949-3 DU
Matrix: Water
Analysis Batch: 480258

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	11			10.1		mg/L				11	20

Lab Sample ID: MB 480-480259/3
Matrix: Water
Analysis Batch: 480259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/29/19 10:31	1

Lab Sample ID: LCS 480-480259/4
Matrix: Water
Analysis Batch: 480259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: 480-154910-1 MS
Matrix: Drinking Water
Analysis Batch: 480259

Client Sample ID: Garage
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	64.1		mg/L		109	75 - 125		

Lab Sample ID: 480-154910-1 DU
Matrix: Drinking Water
Analysis Batch: 480259

Client Sample ID: Garage
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND	U		ND	U	mg/L				NC	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-481426/32
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 14:29	1

Lab Sample ID: MB 480-481426/63
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:04	1

Lab Sample ID: MB 480-481426/84
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/09/19 15:36	1

Lab Sample ID: LCS 480-481426/31
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.9		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-481426/62
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-481426/83
Matrix: Water
Analysis Batch: 481426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.3		mg/L		94	90 - 110		

Method: 9040C - pH

Lab Sample ID: LCS 480-478553/1
Matrix: Water
Analysis Batch: 478553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: 9040C - pH (Continued)

Lab Sample ID: LCS 480-478553/23
Matrix: Water
Analysis Batch: 478553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-154949-3 DU
Matrix: Water
Analysis Batch: 478553

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.1			9.1		SU				0.3	5
Temperature	20.4			20.5		Degrees C				0.8	10

Method: 9251 - Chloride

Lab Sample ID: MB 480-479577/12
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 09:40	1

Lab Sample ID: MB 480-479577/27
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 09:59	1

Lab Sample ID: MB 480-479577/65
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			06/25/19 12:21	1

Lab Sample ID: LCS 480-479577/13
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.8		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-479577/28
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.0		mg/L		104	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-479577/66
Matrix: Water
Analysis Batch: 479577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: MB 480-481257/57
Matrix: Water
Analysis Batch: 481257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/08/19 19:08	1

Lab Sample ID: LCS 480-481257/58
Matrix: Water
Analysis Batch: 481257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.5		mg/L		110	90 - 110

Lab Sample ID: MB 480-481390/12
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 13:55	1

Lab Sample ID: MB 480-481390/49
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 14:13	1

Lab Sample ID: MB 480-481390/64
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			07/09/19 14:28	1

Lab Sample ID: LCS 480-481390/13
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.5		mg/L		102	90 - 110

Lab Sample ID: LCS 480-481390/50
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.1		mg/L		100	90 - 110

Method: 9251 - Chloride

Lab Sample ID: LCS 480-481390/65
Matrix: Water
Analysis Batch: 481390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.3		mg/L		101	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-478576/1
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/19/19 10:48	1

Lab Sample ID: LCS 480-478576/2
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	509		mg/L		102	85 - 115		

Lab Sample ID: 480-154910-1 DU
Matrix: Drinking Water
Analysis Batch: 478576

Client Sample ID: Garage
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	85			78.0		mg/L				9	10

Lab Sample ID: MB 480-478811/1
Matrix: Water
Analysis Batch: 478811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/20/19 11:06	1

Lab Sample ID: LCS 480-478811/2
Matrix: Water
Analysis Batch: 478811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	496		mg/L		99	85 - 115		

Lab Sample ID: 480-154949-3 DU
Matrix: Water
Analysis Batch: 478811

Client Sample ID: New Office
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			108		mg/L				0	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-478591/1
Matrix: Water
Analysis Batch: 478591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/19/19 12:05	1

Lab Sample ID: LCS 480-478591/2
Matrix: Water
Analysis Batch: 478591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			278	276		mg/L		99	88 - 110		

Lab Sample ID: 480-154910-1 DU
Matrix: Drinking Water
Analysis Batch: 478591

Client Sample ID: Garage
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: 480-154910-3 DU
Matrix: Drinking Water
Analysis Batch: 478591

Client Sample ID: TOTMAN
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-478792/1
Matrix: Water
Analysis Batch: 478792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/20/19 10:15	1

Lab Sample ID: LCS 480-478792/2
Matrix: Water
Analysis Batch: 478792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			271	255		mg/L		94	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481318/27
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 00:29	1

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-481318/28
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.1		mg/L		97	90 - 110

QC Association Summary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

GC/MS VOA

Analysis Batch: 478054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	8260C	
480-154910-3	TOTMAN	Total/NA	Drinking Water	8260C	
MB 480-478054/7	Method Blank	Total/NA	Water	8260C	
LCS 480-478054/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 478467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	8260C	
MB 480-478467/8	Method Blank	Total/NA	Water	8260C	
LCS 480-478467/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 477892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	3020A	
480-154910-3	TOTMAN	Total/NA	Drinking Water	3020A	
MB 480-477892/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-477892/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 477893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	3005A	
480-154910-3	TOTMAN	Total/NA	Drinking Water	3005A	
MB 480-477893/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 478126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	3005A	
MB 480-478126/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-478126/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 478331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	7470A	
MB 480-478331/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-478331/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 478418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	7470A	478331
MB 480-478331/1-A	Method Blank	Total/NA	Water	7470A	478331
LCS 480-478331/2-A	Lab Control Sample	Total/NA	Water	7470A	478331

Analysis Batch: 478451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	6010C	477893
480-154910-3	TOTMAN	Total/NA	Drinking Water	6010C	477893
MB 480-477893/1-A	Method Blank	Total/NA	Water	6010C	477893
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	6010C	477893

Metals

Analysis Batch: 478540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	6010C	478126
MB 480-478126/1-A	Method Blank	Total/NA	Water	6010C	478126
LCS 480-478126/2-A	Lab Control Sample	Total/NA	Water	6010C	478126

Prep Batch: 478575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	7470A	
MB 480-478575/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-478575/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 478665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	7470A	478575
MB 480-478575/1-A	Method Blank	Total/NA	Water	7470A	478575
LCS 480-478575/2-A	Lab Control Sample	Total/NA	Water	7470A	478575

Analysis Batch: 479119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	6020A	477892
480-154910-3	TOTMAN	Total/NA	Drinking Water	6020A	477892
MB 480-477892/1-A	Method Blank	Total/NA	Water	6020A	477892
LCS 480-477892/2-A	Lab Control Sample	Total/NA	Water	6020A	477892

Analysis Batch: 479154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-477893/1-A	Method Blank	Total/NA	Water	6010C	477893
LCS 480-477893/2-A	Lab Control Sample	Total/NA	Water	6010C	477893

Analysis Batch: 485002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	6020	
480-154949-3	New Office	Total/NA	Water	6020	

General Chemistry

Analysis Batch: 477922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	353.2	

Analysis Batch: 477923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-3	TOTMAN	Total/NA	Drinking Water	353.2	

Analysis Batch: 477924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	353.2	

Analysis Batch: 477992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	353.2	

General Chemistry

Analysis Batch: 477994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	353.2	

Analysis Batch: 478553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	9040C	
480-154949-3	New Office	Total/NA	Water	9040C	
LCS 480-478553/1	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-478553/23	Lab Control Sample	Total/NA	Water	9040C	
480-154949-3 DU	New Office	Total/NA	Water	9040C	

Analysis Batch: 478576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	SM 2540C	
480-154910-3	TOTMAN	Total/NA	Drinking Water	SM 2540C	
MB 480-478576/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478576/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154910-1 DU	Garage	Total/NA	Drinking Water	SM 2540C	

Analysis Batch: 478591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	SM 2540D	
480-154910-3	TOTMAN	Total/NA	Drinking Water	SM 2540D	
MB 480-478591/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478591/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-154910-1 DU	Garage	Total/NA	Drinking Water	SM 2540D	
480-154910-3 DU	TOTMAN	Total/NA	Drinking Water	SM 2540D	

Analysis Batch: 478792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	SM 2540D	
MB 480-478792/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478792/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 478811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	SM 2540C	
MB 480-478811/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478811/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-154949-3 DU	New Office	Total/NA	Water	SM 2540C	

Analysis Batch: 479295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	350.1	
480-154910-3	TOTMAN	Total/NA	Drinking Water	350.1	
480-154949-3	New Office	Total/NA	Water	350.1	
MB 480-479295/123	Method Blank	Total/NA	Water	350.1	
MB 480-479295/147	Method Blank	Total/NA	Water	350.1	
MB 480-479295/27	Method Blank	Total/NA	Water	350.1	
MB 480-479295/51	Method Blank	Total/NA	Water	350.1	
MB 480-479295/99	Method Blank	Total/NA	Water	350.1	
LCS 480-479295/100	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 479295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-479295/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-479295/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-479295/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-479295/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 479576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	310.2	
480-154910-3	TOTMAN	Total/NA	Drinking Water	310.2	
MB 480-479576/12	Method Blank	Total/NA	Water	310.2	
MB 480-479576/29	Method Blank	Total/NA	Water	310.2	
MB 480-479576/67	Method Blank	Total/NA	Water	310.2	
LCS 480-479576/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/30	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-479576/68	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 479577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	9251	
480-154910-3	TOTMAN	Total/NA	Drinking Water	9251	
MB 480-479577/12	Method Blank	Total/NA	Water	9251	
MB 480-479577/27	Method Blank	Total/NA	Water	9251	
MB 480-479577/65	Method Blank	Total/NA	Water	9251	
LCS 480-479577/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/28	Lab Control Sample	Total/NA	Water	9251	
LCS 480-479577/66	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 480112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	310.2	
MB 480-480112/121	Method Blank	Total/NA	Water	310.2	
LCS 480-480112/122	Lab Control Sample	Total/NA	Water	310.2	
480-154949-3 MS	New Office	Total/NA	Water	310.2	
480-154949-3 DU	New Office	Total/NA	Water	310.2	

Analysis Batch: 480258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	410.4	
MB 480-480258/51	Method Blank	Total/NA	Water	410.4	
LCS 480-480258/52	Lab Control Sample	Total/NA	Water	410.4	
480-154949-3 MS	New Office	Total/NA	Water	410.4	
480-154949-3 DU	New Office	Total/NA	Water	410.4	

Analysis Batch: 480259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	410.4	
480-154910-3	TOTMAN	Total/NA	Drinking Water	410.4	
MB 480-480259/3	Method Blank	Total/NA	Water	410.4	
LCS 480-480259/4	Lab Control Sample	Total/NA	Water	410.4	
480-154910-1 MS	Garage	Total/NA	Drinking Water	410.4	
480-154910-1 DU	Garage	Total/NA	Drinking Water	410.4	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

General Chemistry

Analysis Batch: 481257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	9251	
MB 480-481257/57	Method Blank	Total/NA	Water	9251	
LCS 480-481257/58	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	SM 5310C	
480-154910-3	TOTMAN	Total/NA	Drinking Water	SM 5310C	
480-154949-3	New Office	Total/NA	Water	SM 5310C	
MB 480-481318/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481318/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 481390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-481390/12	Method Blank	Total/NA	Water	9251	
MB 480-481390/49	Method Blank	Total/NA	Water	9251	
MB 480-481390/64	Method Blank	Total/NA	Water	9251	
LCS 480-481390/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/50	Lab Control Sample	Total/NA	Water	9251	
LCS 480-481390/65	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 481426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	9038	
480-154910-3	TOTMAN	Total/NA	Drinking Water	9038	
480-154949-3	New Office	Total/NA	Water	9038	
MB 480-481426/32	Method Blank	Total/NA	Water	9038	
MB 480-481426/63	Method Blank	Total/NA	Water	9038	
MB 480-481426/84	Method Blank	Total/NA	Water	9038	
LCS 480-481426/31	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/62	Lab Control Sample	Total/NA	Water	9038	
LCS 480-481426/83	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 482046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	SM 5210B	

Analysis Batch: 482049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	SM 5210B	
480-154910-3	TOTMAN	Total/NA	Drinking Water	SM 5210B	

Biology

Analysis Batch: 482047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	SM 9222B	

Analysis Batch: 482052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	SM 9222B	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Job ID: 480-154910-1

Field Service / Mobile Lab

Analysis Batch: 477859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154910-1	Garage	Total/NA	Drinking Water	Field Sampling	
480-154910-2	New Office	Total/NA	Drinking Water	Field Sampling	
480-154910-3	TOTMAN	Total/NA	Drinking Water	Field Sampling	

Analysis Batch: 478354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154949-3	New Office	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Client Sample ID: Garage
Lab Sample ID: 480-154910-1
Date Collected: 06/13/19 14:00
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478054	06/17/19 13:02	KMN	TAL BUF
Total/NA	Prep	3005A			477893	06/17/19 07:06	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478451	06/18/19 16:05	AMH	TAL BUF
Total/NA	Analysis	6020		5	485002	07/24/19 12:00	LES	
Total/NA	Prep	3020A			477892	06/17/19 06:55	EMB	TAL BUF
Total/NA	Analysis	6020A		1	479119	06/21/19 14:27	KMP	TAL BUF
Total/NA	Prep	7470A			478331	06/18/19 11:30	BMB	TAL BUF
Total/NA	Analysis	7470A		1	478418	06/18/19 15:14	BMB	TAL BUF
Total/NA	Analysis	310.2		1	479576	06/25/19 13:02	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 09:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477922	06/14/19 18:27	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477924	06/14/19 18:27	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480259	06/29/19 10:31	EAG	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 16:07	KEB	TAL BUF
Total/NA	Analysis	9040C		1	478553	06/18/19 14:58	KMF	TAL BUF
Total/NA	Analysis	9251		1	479577	06/25/19 09:40	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478576	06/19/19 10:48	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478591	06/19/19 12:05	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	482049	06/19/19 09:55	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 02:41	CLA	TAL BUF
Total/NA	Analysis	SM 9222B		1	482052	06/14/19 20:30	CTB	KAT
Total/NA	Analysis	Field Sampling		1	477859	06/13/19 14:00	FLD	TAL BUF

Client Sample ID: New Office
Lab Sample ID: 480-154910-2
Date Collected: 06/13/19 16:20
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	477859	06/13/19 16:20	FLD	TAL BUF

Client Sample ID: TOTMAN
Lab Sample ID: 480-154910-3
Date Collected: 06/13/19 13:33
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478054	06/17/19 13:28	KMN	TAL BUF
Total/NA	Prep	3005A			477893	06/17/19 07:06	EMB	TAL BUF
Total/NA	Analysis	6010C		1	478451	06/18/19 16:12	AMH	TAL BUF
Total/NA	Prep	3020A			477892	06/17/19 06:55	EMB	TAL BUF
Total/NA	Analysis	6020A		1	479119	06/21/19 14:31	KMP	TAL BUF
Total/NA	Analysis	310.2		1	479576	06/25/19 13:02	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 11:10	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477923	06/14/19 21:34	SMH	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Client Sample ID: TOTMAN
Lab Sample ID: 480-154910-3
Date Collected: 06/13/19 13:33
Matrix: Drinking Water
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	480259	06/29/19 10:31	EAG	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 16:08	KEB	TAL BUF
Total/NA	Analysis	9251		1	479577	06/25/19 09:40	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478576	06/19/19 10:48	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478591	06/19/19 12:05	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	482049	06/19/19 09:55	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 03:25	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	477859	06/13/19 13:33	FLD	TAL BUF

Client Sample ID: New Office
Lab Sample ID: 480-154949-3
Date Collected: 06/14/19 16:30
Matrix: Water
Date Received: 06/15/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478467	06/19/19 05:46	RJF	TAL BUF
Total/NA	Prep	3005A			478126	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478540	06/18/19 20:47	AMH	TAL BUF
Total/NA	Analysis	6020		5	485002	07/24/19 12:00	LES	
Total/NA	Prep	7470A			478575	06/19/19 11:40	BMB	TAL BUF
Total/NA	Analysis	7470A		1	478665	06/19/19 15:33	BMB	TAL BUF
Total/NA	Analysis	310.2		1	480112	06/27/19 19:45	KEB	TAL BUF
Total/NA	Analysis	350.1		1	479295	06/24/19 10:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477992	06/15/19 11:51	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477994	06/15/19 11:51	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480258	06/29/19 09:43	EAG	TAL BUF
Total/NA	Analysis	9038		1	481426	07/09/19 14:34	KEB	TAL BUF
Total/NA	Analysis	9040C		1	478553	06/18/19 15:30	KMF	TAL BUF
Total/NA	Analysis	9251		1	481257	07/08/19 19:08	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478811	06/20/19 11:06	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478792	06/20/19 10:15	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	482046	06/15/19 12:35	CTB	KAT
Total/NA	Analysis	SM 5310C		1	481318	07/07/19 05:39	CLA	TAL BUF
Total/NA	Analysis	SM 9222B		1	482047	06/15/19 10:00	CTB	KAT
Total/NA	Analysis	Field Sampling		1	478354	06/14/19 16:30	FLD	TAL BUF

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Drinking Water	Sulfate
9038		Water	Sulfate
9040C		Drinking Water	pH
9040C		Drinking Water	Temperature
9040C		Water	pH
9040C		Water	Temperature
9251		Drinking Water	Chloride
9251		Water	Chloride
Field Sampling		Drinking Water	Depth to Water from Top of Casing
Field Sampling		Drinking Water	Field EH/ORP
Field Sampling		Drinking Water	Field pH
Field Sampling		Drinking Water	Oxygen, Dissolved
Field Sampling		Drinking Water	Specific Conductance
Field Sampling		Drinking Water	Temperature
Field Sampling		Drinking Water	Turbidity
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity

Method Summary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	
6020A	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 5310C	TOC	SM	TAL BUF
SM 9222B	Coliforms, Total (Membrane Filter)	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Scarborough, ME, PO BOX 540, 600 Technology Way, Scarborough, ME 04074
KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154910-1	Garage	Drinking Water	06/13/19 14:00	06/14/19 09:00	
480-154910-2	New Office	Drinking Water	06/13/19 16:20	06/14/19 09:00	
480-154910-3	TOTMAN	Drinking Water	06/13/19 13:33	06/14/19 09:00	
480-154949-3	New Office	Water	06/14/19 16:30	06/15/19 09:30	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-154910-1
Project/Site: Crossroads ME-Ann DW Garage, Office,etc

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Drinking Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Drinking Water	Total/NA	mg/L	0.15	0.50
6010C	Calcium	Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Drinking Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Water	Total/NA	mg/L	0.030	0.05
6010C	Lead	Drinking Water	Total/NA	mg/L	0.0050	0.01
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Potassium	Drinking Water	Total/NA	mg/L	0.20	0.50
6010C	Potassium	Water	Total/NA	mg/L	0.20	0.50
6010C	Sodium	Drinking Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Water	Total/NA	mg/L	0.40	1.0
9251	Chloride	Drinking Water	Total/NA	mg/L	0.50	1.0
9251	Chloride	Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Drinking Water	Total/NA	mg/L	5.0	10
SM 2540C	Total Dissolved Solids	Water	Total/NA	mg/L	5.0	10

June 25, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5950
Project ID: Waste Management Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/25/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-1
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
GARAGE	AQ	13-JUN-19 14:00:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:55:00	SM 5210B	14-JUN-19 954	BR		

Katahdin Analytical Services SM5950 page 0000003 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-2
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	13-JUN-19 16:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	83. mg/L	80.	9.3	SM 5210B	WG255414	19-JUN-19 09:59:00	SM 5210B	14-JUN-19 958	BR		

Katahdin Analytical Services SM5950 page 0000004 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-3
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TOTMAN	AQ	13-JUN-19 13:33:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:51:00	SM 5210B	14-JUN-19 950	BR		

Katahdin Analytical Services SM5950 page 0000005 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-5
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
45SD	AQ	13-JUN-19 11:35:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	4.4 mg/L	3.0	0.35	SM 5210B	WG255414	19-JUN-19 09:48:00	SM 5210B	14-JUN-19 947	BR		

Katahdin Analytical Services SM5950 page 0000006 of 0000012

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG255414	SM 5210B	19-JUN-19	14-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG255414-2	LCS	WG255414	19-JUN-19	14-JUN-19	mg/L	198	210	104	85-115	

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM5950
Waste Management
Project: Crossroads
Client PO:
Report Date: 25-JUN-19

Lab ID: SM5950-1 **Client ID:** GARAGE **Collected Date:** 13-JUN-19 14:00:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

Lab ID: SM5950-2 **Client ID:** TANK **Collected Date:** 13-JUN-19 16:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	75 /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	Colilert/Quantitray

Lab ID: SM5950-4 **Client ID:** TRANS **Collected Date:** 13-JUN-19 14:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: TEST AMERICA	KAS PM: GN	Sampled By: LCL NA	
Project: CROSSROADS	KIMS Entry By: GN	Delivered By: NA	
KAS Work Order#: SM 5950	KIMS Review By: SW	Received By: ~~GB~~ NA	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/13/19 1945	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 2.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman, Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 5950**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD	T-Coliform	E-Coliform	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	Garage	6/13/2019 1400	AQ	2	1	1											
	TANK	6/13/2019 1630	AQ	2	1		1										
	Totman	6/13/2019 1333	AQ	1	1												
	TRANS	6/13/2019 1430	AQ	1		1											
	45SD	6/13/2019 1135	AQ	1	1												

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	6/13/19 1945				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 14, 2019
08:46 AM

Login Number: SM5950

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	2.9
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5950-1	GARAGE	13-JUN-19 14:00	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-2	TANK	13-JUN-19 16:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_ECOLI_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-3	TOTMAN	13-JUN-19 13:33	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-4	TRANS	13-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			

SM5950-5	45SD	13-JUN-19 11:35	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

Total Samples: *5* ***Total Analyses:*** *7*

July 29, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM7305
Project ID: Waste management Crossroads ME
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): July 17, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

07/29/2019

Date

TECHNICAL NARRATIVE

Reissue 8/1/2019

The report is being reissued to correct the client ID for sample SM7305-1.

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-001
Report Date: 7/31/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
GARAGE	AQ	No(Total)	07/13/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	0.00484	mg/L	0.00100	5	0.0002	SW846 6020	7/24/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-002
Report Date: 7/29/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
NEW OFFICE	AQ	No(Total)	07/14/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	AnalyticalMethod	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	U 0.00100	mg/L	0.00100	5	0.0002	SW846 6020	7/24/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst, NY 14228

Lab Sample ID: SM7305-003
Report Date: 7/29/2019
PO No.: 48003284
Project: Waste management Crossroads ME

Sample Description	Matrix	Filtered	Date Sampled	Date Received
TRANS	AQ	No(Total)	07/13/2019	07/17/2019

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	AnalyticalMethod	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
URANIUM	0.0570	mg/L	0.00100	5	0.0002	SW846 6020	7/25/19	AP	SW846 3010	7/23/19	AB	MG23IMW1	

PREPARATION BLANK REPORT

Sample ID: PBWMG23IMW1 **Batch ID:** MG23IMW1 **Work Order:** SM7305

Element Name	Flag	Result	Units	PQL	MDL	File
URANIUM	U	0.000200	mg/L	0.00100	0.000015	LMG23A

U The analyte was not detected in the sample at a level greater than the method detection limit.

J The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSWMG23IMW1 **Batch ID:** MG23IMW1 **Work Order:** SM7305

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (%)		File
URANIUM	0.100	0.100	mg/L	100.0		80	120	LMG23A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE QC SUMMARY

Sample ID: SM7305-002

Symbol	Sample Result	Units	Spike Added	Spike Result	Spike Rec.(%)	Note	Spike Dup Added	Spike Duplicate Result	Spike Duplicate Rec.(%)	Note	RPD(%)	Note
U	U 0.00100	mg/L	0.100	0.103	103 %		0.100	0.101	101 %		1.96 %	

M1 Matrix spike recovery is outside the laboratory's acceptance range indicating potential sample matrix interference and potential bias of reported value for this parameter.

M2 Matrix spike recovery is outside the laboratory's acceptance range. The spike concentration is significantly below the sample concentration and cannot be distinguished from the sample signal.

3 Matrix spike analysis cannot be quantified due to severe matrix interferences.

R1 Precision of replicate analysis as measured by RPD is outside the laboratory's acceptance range for this parameter. Sample homogeneity may be a factor.

5 Because of the large uncertainty associated with measurements made near the detection level, there is no acceptance range for relative percent difference.

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Test America	KAS PM:	Sampled By: Client
Project:	KIMS Entry By:	Delivered By: Fedex
KAS Work Order#: SM7305	KIMS Review By:	Received By: JCB
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 7/17/19 0955

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				✓	Temp (°C): N/A — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?				✓	Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?				✓	The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?				✓	
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

SM7305

Chain of Custody Record

TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128039-25869.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			Preservation Codes: A - HCL, M - Hexane
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual DW TOTMAN, Garage, Ne	Project #: 48003284			
Site: Maine	SSOW#:			

480-154910 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	350.1, 410.4	6010C, 6020A	8260C - (MOD) Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6010C, 6020A, 7470A	9222B - Coliform, Total	Total Number of conta	Special Instructions/Note:
			Preservation Code:				A	S	D	A	A	N	N	N	N	N	N	D	R		
Trip Blank-01				Water																	
TOTMAN	6/13/19	1333	G	Water	N	N	12	1	1	3	2	0	1	1	X	2	1			12	* BOD was Rec'd
Garage		1400	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	JUBBED TO Katahdin
New Office		1620	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	* T-coliforms have been subbed to Katahdin

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/13/19 1800	KAS		6/14/19 0700	TAS
2		7-15-19 1615	KAS		7.17.19 0955	KAS
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6

Ver: 01/16/2019

Katahdin Analytical Services SM7305 page 0000011 of 0000014

Chain of Custody Record

TestAmerica

Client Information	Sampler: ADAM?	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207) 831.9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:
Address: 357 Mercer Road	Due Date Requested:			
City: Norridgewock	TAT Requested (Business Days)			
State, Zip: ME, 04957				
Phone: 000-0000	PO #: Purchase Order not required			
Email:	WO #			
Project Name: Crossroads ME/	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
F - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (Al)	Cation_Anion - (MOD) Local Method	BOD, Coliform	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
310AW	6/14/19	1223	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
624B		1339	G	Water				1	2	1	1	X	2	1	3	1	1	X		13	
NEW OFFICE		1630	G	Water				1	2	1	1	X	2	1	3	1		1	0		* BOD AND coliform Subbed to KAS.
										plus		6020A, 7470A									bottle for PH analysis

480-154949 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/14/19 1800	KAS		6/15/19 0930	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7-15-19 1615	QUAD			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: #1 2.6

Katahdin Analytical Services SM7305 page 0000012 of 0000014

Chain of Custody Record

TestAmerica

480-154908 Chain of Custody

Client Information	Sampler: ADAMS/AMAN	Lab PM: Denise Giglia	C:
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: Denise.Giglia@testamericainc.com	
Company: Waste Management - Norridgewock ME - (Crossroads)		Parameter(s) Requested	
Address: 357 Mercer Road	Due Date Requested:		
City: Norridgewock	TAT Requested (Business Days)		
State, Zip: ME, 04957			
Phone: 000-0000	PO #: Purchase Order not required		
Email:	WO #:		
Project Name: Crossroads ME/	Project #:		
Site: Maine	SSOW#:		

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2 SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling (FIELD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	9222 B (MOD) Appendix Volatiles - 9222 B	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method	9040 pH	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N	
310 C	6/13/19	1603	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
310 D	↓	1525	G	Water	N	N	1	1	2	1	1	X	2	1			1	Y		10	
TLANS	↓	1430	G	Water				1A	2	1	1	X	2	1	0	1	1	x	1	11	coliform subbed to Katahdin
																					Plus 6020A - Uranium

Katahdin Analytical Services SM7305 page 0000013 of 0000014

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/13/19 1800	LAS		6/14/19 0900	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
	7-15-19 1615	KAD			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: IR 2.6

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 01, 2019
09:47 AM

Login Number: SM7305

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	Merge results for EDD.
CHECK NO.	:	
CLIENT PO#	:	48003284
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	n/a
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste management Crossroads ME
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM7305-1	GARAGE	13-JUL-19 14:00	17-JUL-19			29-JUL-19	29-JUL-19

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	09-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	09-JAN-20	250mL Plastic+HNO3		

SM7305-2	NEW OFFICE	14-JUL-19 16:30	17-JUL-19			29-JUL-19	29-JUL-19

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	10-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	10-JAN-20	250mL Plastic+HNO3		

SM7305-3	TRANS	13-JUL-19 14:30	17-JUL-19			29-JUL-19	29-JUL-19

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010MS-PREP	09-JAN-20	250mL Plastic+HNO3		
Aqueous	S	SW6020-URANIUM	09-JAN-20	250mL Plastic+HNO3		

Total Samples: *3* ***Total Analyses:*** *6*

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128039-25869.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual DW TOTMAN, Garage, Nev	Project #: 48003284			
Site: Maine	SSOW#:			

480-154910 Chain of Custody

Preservation Codes:
A - HCL M - Hexane
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	350.1, 410.4	6010C, 6020A	8260C - (MOD) Appendix I Volatiles	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6010C, 6020A, 7470A	9222B - Coliform, Total	Total Number of conta	Special Instructions/Note:
			Preservation Code:				A	S	D	A	A	N	N	N	N	N	N	D	R		
Trip Blank-01				Water																	
TOTMAN	6/13/19	1333	G	Water	N	N	12	1	1	3	2	0	1	1	X	2	1	·		12	* BOD HAS BEEN
Garage	↓	1400	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	SUBBED TO Katahdin
New Office		1620	G	Water	N	N	3	1			2	0	1	1	X	2	1	1	0	12	* T-coliforms have been subbed to Katahdin

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/13/19 1800	KAS	[signature]	6/14/19 0900	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.6

Ver: 01/16/2019

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128039-25869.2
Client Contact: Nick Adams	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual DW TOTMAN, Garage, Nev	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9040C - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Trip Blank-01				Water					
TOTMAN				Water					
Garage	6/13/19	1400		Water	N	N	1	1	
New Office	↓	1620		Water	N	N	1	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/13/19 1800	KAS	C Wallace	6/14/19 0900	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207) 831.9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:

Address: 357 Mercer Road	Due Date Requested:
City: Norridgewock	TAT Requested (Business Days)
State, Zip: ME, 04957	
Phone: 000-0000	PO #: Purchase Order not required
Email:	WO #:
Project Name: Crossroads ME/	Project #:
Site: Maine	SSOW#:

Parameter(s) Requested

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (All)	Cation_Anion - (MOD) Local Method	BOD, Coliform	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
310AW	6/14/19	1223	G	Water	N	N	1	1	2	1	1	X	2	1			1	X		10	
624B	"	1339	G	Water				1	2	1	1	X	2	1	3	1	1	X		13	
NEW OFFICE	"	1630	G	Water				1	2	1	1	X	2	1	3	1		1	0		* BOD AND coliform Subbed to KAS.
										plus 6020A, 7470A											bottle for PH analysis

480-154949 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/14/19 1800	KAS	[signature]	6/15/19 0930	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.6

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GARAGE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/13/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . Dedicated: (Y) or N

Purging Device: A

Sampling Device: F

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05/13/19	8.61	120	10.1	00	2.5	122.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

PURGED FOR 15 MINUTES.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/13/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: NEW OFFICE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 13 19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A
Sampling Device: A
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation) (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
05 13 19	8.68	138	9.5	1.9	3.2	210.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: SE 5-10
Outlook: cloudy
Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
05/13/19	Katrina Aman		KAS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: TOTMAN
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
06/13/19	1302	:30	7.93	60	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	19.31	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
54.58		2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1302		1st 8.15	1st 1.52	9.8	3.2	10.4	173.7	
1307		2nd 8.05	2nd 1.48	9.5	1.9	9.8	175.5	
1312		3rd 8.02	3rd 1.47	9.4	1.6	9.6	174.5	
1317		4th 8.01	4th 1.46	9.4	0.8	9.6	173.9	
1322		8.01	1.43	9.4	1.5	9.5	174.2	
1327		8.02	1.40	9.4	1.3	9.2	174.1	
1332		8.03	1.39	9.3	0.6	8.8	173.8	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units
06/13/19	8.03	~~14~~ 139	9.3	0.6	8.8	173.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: clear Other:
Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 05 Outlook: cloudy Precipitation: (Y) or N
Specific Comments (including purge/well volume calculations if required): *Conductance = 139

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/13/19	Katrina Aman		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154910-1

Login Number: 154910
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	kas
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154910-1

Login Number: 154949
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	kas
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154925-1
Client Project/Site: Crossroads ME-Annual Leachate Tank
Sampling Event: Annual Leachate Tank (4)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
7/15/2019 2:30:16 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

GC Semi VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154925-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154925-1

Comments
No additional comments.

Receipt
The samples were received on 6/14/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: TANK (480-154925-1). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: TANK (480-154925-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: TANK (480-154925-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TANK (480-154925-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: TANK (480-154925-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 1631E: The following sample was diluted due to the nature of the sample matrix: TANK (480-154925-1). Elevated reporting limits (RLs) are provided. Additional Bromine Monochloride was added

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 4500 Cl G: The following samples were diluted due to color: TANK (480-154925-1) and (480-154925-N-1 DU ^5). Elevated reporting limits (RL) are provided.

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-154925-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-154925-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 480-154925-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-154925-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

Client Sample ID: TANK — Lab Sample ID: 480-154925-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	14		5.0		ng/L	1		1631E	Total/NA
Arsenic	0.21		0.0090		mg/L	1		6010C	Total/NA
Barium	0.55		0.0050		mg/L	1		6010C	Total/NA
Chromium	0.43		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.020		0.010		mg/L	1		6010C	Total/NA
Lead	0.0059		0.0050		mg/L	1		6010C	Total/NA
Nickel	0.16		0.010		mg/L	1		6010C	Total/NA
Zinc	0.040		0.020		mg/L	1		6010C	Total/NA
Aluminum	0.49		0.25		mg/L	1		6020A	Total/NA
Flashpoint	>176		50.0		Degrees F	1		1010A	Total/NA
Oil & Grease	7.2		4.9		mg/L	1		1664B	Total/NA
Ammonia as N	970		100		mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	1800		200		mg/L	20		410.4	Total/NA
Cyanide, Total	0.013		0.010		mg/L	1		9012B	Total/NA
pH	8.0		0.1		SU	1		9040C	Total/NA
Temperature	20.4		0.001		Degrees C	1		9040C	Total/NA
Hardness	670		10		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	7400		100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		4.0		mg/L	1		SM 2540D	Total/NA
Phosphorus	9.6		0.10		mg/L	10		SM 4500 P E	Total/NA
Biochemical Oxygen Demand	83		80		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	390		4.0		mg/L	4		SM 5310C	Total/NA
Escherichia coli	75		2		CFU/100mL	1		SM 9223B	Total/NA
Turbidity	26.2				NTU	1		Field Sampling	Total/NA
Temperature	15.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.17				SU	1		Field Sampling	Total/NA
Specific Conductance	16081				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	48.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-154925-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: TANK
Lab Sample ID: 480-154925-1

Date Collected: 06/13/19 16:30
Matrix: Leachate
Date Received: 06/14/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	U	20		ug/L			06/18/19 13:26	20
Toluene	ND	U	20		ug/L			06/18/19 13:26	20
Xylenes, Total	ND	U	40		ug/L			06/18/19 13:26	20
2-Hexanone	ND	U	100		ug/L			06/18/19 13:26	20
Acetone	ND	U	200		ug/L			06/18/19 13:26	20
Methyl Ethyl Ketone	ND	U	200		ug/L			06/18/19 13:26	20
Methyl isobutyl ketone	ND	U	100		ug/L			06/18/19 13:26	20
Methylene Chloride	ND	U	20		ug/L			06/18/19 13:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/18/19 13:26*	*20*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/18/19 13:26*	*20*
4-Bromofluorobenzene (Surr)	*83*		*73 - 120*		*06/18/19 13:26*	*20*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*06/18/19 13:26*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
2-Methylphenol	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
4-Methylphenol	ND	U	500		ug/L		06/18/19 07:53	06/26/19 17:43	10
Alpha-Terpineol	ND	U	500		ug/L		06/18/19 07:53	06/26/19 17:43	10
Benzoic acid	ND	U	7500		ug/L		06/18/19 07:53	06/26/19 17:43	10
Benzyl alcohol	ND	U	1000		ug/L		06/18/19 07:53	06/26/19 17:43	10
Fluoranthene	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
Naphthalene	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
Phenanthrene	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
Phenol	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10
Pyrene	ND	U	250		ug/L		06/18/19 07:53	06/26/19 17:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*46 - 120*	*06/18/19 07:53*	*06/26/19 17:43*	*10*
2-Fluorobiphenyl	*81*		*48 - 120*	*06/18/19 07:53*	*06/26/19 17:43*	*10*
p-Terphenyl-d14	*54*	*	*59 - 136*	*06/18/19 07:53*	*06/26/19 17:43*	*10*
Phenol-d5	*45*		*22 - 120*	*06/18/19 07:53*	*06/26/19 17:43*	*10*
2-Fluorophenol	*54*		*35 - 120*	*06/18/19 07:53*	*06/26/19 17:43*	*10*
2,4,6-Tribromophenol	*103*		*41 - 120*	*06/18/19 07:53*	*06/26/19 17:43*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.50		ug/L		06/17/19 08:27	06/18/19 17:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*20 - 120*	*06/17/19 08:27*	*06/18/19 17:09*	*2*
Tetrachloro-m-xylene	*84*		*44 - 120*	*06/17/19 08:27*	*06/18/19 17:09*	*2*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**14**		5.0		ng/L		06/17/19 15:00	06/18/19 11:58	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

Client Sample ID: TANK

Date Collected: 06/13/19 16:30
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154925-1

Matrix: Leachate

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.21**		0.0090		mg/L		06/18/19 07:04	06/19/19 00:57	1
Barium	**0.55**		0.0050		mg/L		06/18/19 07:04	06/19/19 00:57	1
Cadmium	ND	U	0.0050		mg/L		06/18/19 07:04	06/19/19 00:57	1
Chromium	**0.43**		0.010		mg/L		06/18/19 07:04	06/19/19 00:57	1
Cobalt	**0.020**		0.010		mg/L		06/18/19 07:04	06/19/19 00:57	1
Copper	ND	U	0.025		mg/L		06/18/19 07:04	06/19/19 00:57	1
Lead	**0.0059**		0.0050		mg/L		06/18/19 07:04	06/19/19 00:57	1
Nickel	**0.16**		0.010		mg/L		06/18/19 07:04	06/19/19 00:57	1
Selenium	ND	U	0.010		mg/L		06/18/19 07:04	06/19/19 00:57	1
Silver	ND	U	0.015		mg/L		06/18/19 07:04	06/19/19 00:57	1
Thallium	ND	U	0.020		mg/L		06/18/19 07:04	06/19/19 00:57	1
Zinc	**0.040**		0.020		mg/L		06/18/19 07:04	06/19/19 00:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.49**		0.25		mg/L		06/26/19 12:35	06/27/19 23:37	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	**7.2**		4.9		mg/L		07/03/19 11:30	07/03/19 15:12	1
Ammonia as N	**970**		100		mg/L		07/11/19 07:00	07/11/19 10:14	1
Nitrate	ND	U	0.050		mg/L			06/14/19 18:34	1
Nitrite	ND	U	0.050		mg/L			06/14/19 18:34	1
Chemical Oxygen Demand	**1800**		200		mg/L			07/02/19 09:19	20
Cyanide, Total	**0.013**		0.010		mg/L		06/25/19 16:52	06/26/19 12:04	1
Hardness	**670**		10		mg/L			07/08/19 12:36	1
Total Dissolved Solids	**7400**		100		mg/L			06/19/19 10:48	1
Chlorine, Total Residual	ND	U	0.10		mg/L			06/18/19 12:40	5
Phosphorus	**9.6**		0.10		mg/L			06/26/19 12:15	10
Biochemical Oxygen Demand	**83**		80		mg/L			06/19/19 09:59	1
Total Organic Carbon	**390**		4.0		mg/L			07/07/19 04:39	4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		50.0		Degrees F			07/07/19 15:39	1
pH	**8.0**		0.1		SU			06/18/19 15:25	1
Temperature	**20.4**		0.001		Degrees C			06/18/19 15:25	1
Total Suspended Solids	**19**		4.0		mg/L			06/20/19 10:06	1

Method: SM 9223B - Coliforms, Total, and E.Coli

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	**75**		2		CFU/100mL			06/14/19 20:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**26.2**				NTU			06/13/19 16:30	1
Temperature	**15.9**				Degrees C			06/13/19 16:30	1
Field pH	**8.17**				SU			06/13/19 16:30	1
Specific Conductance	**16081**				umhos/cm			06/13/19 16:30	1
Field EH/ORP	**48.1**				millivolts			06/13/19 16:30	1
Oxygen, Dissolved	**8.3**				mg/L			06/13/19 16:30	1

Client Sample ID: TB
Lab Sample ID: 480-154925-2

Date Collected: 06/13/19 00:00
Matrix: WQ
Date Received: 06/14/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	U	1.0		ug/L			06/18/19 13:50	1
Toluene	ND	U	1.0		ug/L			06/18/19 13:50	1
Xylenes, Total	ND	U	2.0		ug/L			06/18/19 13:50	1
2-Hexanone	ND	U	5.0		ug/L			06/18/19 13:50	1
Acetone	ND	U	10		ug/L			06/18/19 13:50	1
Methyl Ethyl Ketone	ND	U	10		ug/L			06/18/19 13:50	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			06/18/19 13:50	1
Methylene Chloride	ND	U	1.0		ug/L			06/18/19 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*06/18/19 13:50*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/18/19 13:50*	*1*
4-Bromofluorobenzene (Surr)	*77*		*73 - 120*		*06/18/19 13:50*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/18/19 13:50*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-154925-1	TANK	99	90	83	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-478257/5	Lab Control Sample	96	99	90	92
MB 480-478257/7	Method Blank	104	90	81	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-154925-2	TB	110	89	77	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
480-154925-1	TANK	73	81	54 *	45	54	103

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(59-136)	(22-120)	(35-120)	(41-120)
LCS 480-478248/2-A	Lab Control Sample	87	91	98	58	72	108
MB 480-478248/1-A	Method Blank	73	76	88	39	54	75

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(20-120)	(44-120)
480-154925-1	TANK	64	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(20-120)	(44-120)
LCS 480-478069/2-A	Lab Control Sample	53	77
MB 480-478069/1-A	Method Blank	46	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-478257/7
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	U	1.0		ug/L			06/18/19 12:52	1
Toluene	ND	U	1.0		ug/L			06/18/19 12:52	1
Xylenes, Total	ND	U	2.0		ug/L			06/18/19 12:52	1
2-Hexanone	ND	U	5.0		ug/L			06/18/19 12:52	1
Acetone	ND	U	10		ug/L			06/18/19 12:52	1
Methyl Ethyl Ketone	ND	U	10		ug/L			06/18/19 12:52	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			06/18/19 12:52	1
Methylene Chloride	ND	U	1.0		ug/L			06/18/19 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/18/19 12:52*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/18/19 12:52*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*06/18/19 12:52*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*06/18/19 12:52*	*1*

Lab Sample ID: LCS 480-478257/5
Matrix: Water
Analysis Batch: 478257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.8		ug/L		95	71 - 124
Toluene	25.0	24.7		ug/L		99	80 - 122
Xylenes, Total	50.0	45.9		ug/L		92	76 - 122
2-Hexanone	125	143		ug/L		114	65 - 127
Acetone	125	111		ug/L		89	56 - 142
Methyl Ethyl Ketone	125	129		ug/L		103	57 - 140
Methyl isobutyl ketone	125	132		ug/L		105	71 - 125
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-478248/1-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
2-Methylphenol	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
4-Methylphenol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
Alpha-Terpineol	ND	U	10		ug/L		06/18/19 07:53	06/25/19 15:29	1
Benzoic acid	ND	U	150		ug/L		06/18/19 07:53	06/25/19 15:29	1
Benzyl alcohol	ND	U	20		ug/L		06/18/19 07:53	06/25/19 15:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-478248/1-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
Naphthalene	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
Phenanthrene	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
Phenol	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1
Pyrene	ND	U	5.0		ug/L		06/18/19 07:53	06/25/19 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*46 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
Phenol-d5	*39*		*22 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2-Fluorophenol	*54*		*35 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*
2,4,6-Tribromophenol	*75*		*41 - 120*	*06/18/19 07:53*	*06/25/19 15:29*	*1*

Lab Sample ID: LCS 480-478248/2-A
Matrix: Water
Analysis Batch: 479465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			32.0	28.2		ug/L		88	59 - 120		
2-Methylphenol			32.0	31.5		ug/L		99	39 - 120		
4-Methylphenol			32.0	28.6		ug/L		90	29 - 131		
Benzoic acid			256	165		ug/L		64	10 - 120		
Benzyl alcohol			32.0	24.3		ug/L		76	41 - 126		
Fluoranthene			32.0	33.2		ug/L		104	69 - 126		
Naphthalene			32.0	28.8		ug/L		90	57 - 120		
Phenanthrene			32.0	34.1		ug/L		107	68 - 120		
Phenol			32.0	21.5		ug/L		67	17 - 120		
Pyrene			32.0	32.2		ug/L		100	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*87*		*46 - 120*
2-Fluorobiphenyl	*91*		*48 - 120*
p-Terphenyl-d14	*98*		*59 - 136*
Phenol-d5	*58*		*22 - 120*
2-Fluorophenol	*72*		*35 - 120*
2,4,6-Tribromophenol	*108*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-478069/1-A
Matrix: Water
Analysis Batch: 478238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478069

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.050		ug/L		06/17/19 08:27	06/18/19 10:18	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-478069/1-A
Matrix: Water
Analysis Batch: 478238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478069

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*20 - 120*	*06/17/19 08:27*	*06/18/19 10:18*	*1*
Tetrachloro-m-xylene	*65*		*44 - 120*	*06/17/19 08:27*	*06/18/19 10:18*	*1*

Lab Sample ID: LCS 480-478069/2-A
Matrix: Water
Analysis Batch: 478238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.400	0.357		ug/L		89	58 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*20 - 120*
Tetrachloro-m-xylene	*77*		*44 - 120*

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-386583/1-A
Matrix: Water
Analysis Batch: 386791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386583

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.50	ng/L		06/17/19 15:00	06/18/19 11:39	1

Lab Sample ID: LCS 240-386583/2-A
Matrix: Water
Analysis Batch: 386791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.27		ng/L		105	77 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-478172/1-A
Matrix: Water
Analysis Batch: 478542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478172

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		06/18/19 07:04	06/18/19 23:07	1
Barium	ND	U	0.0050	mg/L		06/18/19 07:04	06/18/19 23:07	1
Cadmium	ND	U	0.0050	mg/L		06/18/19 07:04	06/18/19 23:07	1
Chromium	ND	U	0.010	mg/L		06/18/19 07:04	06/18/19 23:07	1
Cobalt	ND	U	0.010	mg/L		06/18/19 07:04	06/18/19 23:07	1
Copper	ND	U	0.025	mg/L		06/18/19 07:04	06/18/19 23:07	1
Lead	ND	U	0.0050	mg/L		06/18/19 07:04	06/18/19 23:07	1
Nickel	ND	U	0.010	mg/L		06/18/19 07:04	06/18/19 23:07	1
Selenium	ND	U	0.010	mg/L		06/18/19 07:04	06/18/19 23:07	1
Silver	ND	U	0.015	mg/L		06/18/19 07:04	06/18/19 23:07	1
Thallium	ND	U	0.020	mg/L		06/18/19 07:04	06/18/19 23:07	1
Zinc	ND	U	0.020	mg/L		06/18/19 07:04	06/18/19 23:07	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-478172/2-A
Matrix: Water
Analysis Batch: 478542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.202		mg/L		101	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Lead	0.200	0.189		mg/L		94	80 - 120
Nickel	0.200	0.195		mg/L		98	80 - 120
Selenium	0.200	0.196		mg/L		98	80 - 120
Silver	0.0500	0.0490		mg/L		98	80 - 120
Thallium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.197		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-575821/1-A
Matrix: Water
Analysis Batch: 576159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575821

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		06/26/19 12:35	06/27/19 23:06	1

Lab Sample ID: LCS 680-575821/2-A
Matrix: Water
Analysis Batch: 576159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	4.91		mg/L		98	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-481043/1
Matrix: Water
Analysis Batch: 481043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-480771/2-A
Matrix: Water
Analysis Batch: 480839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480771

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND	U	5.2	mg/L		07/03/19 11:30	07/03/19 15:12	1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-480771/1-A
Matrix: Water
Analysis Batch: 480839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	41.7	40.3		mg/L		96	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-481590/1-A
Matrix: Water
Analysis Batch: 481627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481590

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L		07/11/19 07:00	07/11/19 10:02	1

Lab Sample ID: LCS 480-481590/2-A
Matrix: Water
Analysis Batch: 481627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.912		mg/L		91	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-480527/3
Matrix: Water
Analysis Batch: 480527

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			07/02/19 09:19	1

Lab Sample ID: MB 480-480527/51
Matrix: Water
Analysis Batch: 480527

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			07/02/19 09:19	1

Lab Sample ID: LCS 480-480527/4
Matrix: Water
Analysis Batch: 480527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	27.3		mg/L		109	90 - 110

Lab Sample ID: LCS 480-480527/52
Matrix: Water
Analysis Batch: 480527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	27.0		mg/L		108	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-479563/1-A
Matrix: Water
Analysis Batch: 479734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479563

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010		mg/L		06/25/19 16:52	06/26/19 11:38	1

Lab Sample ID: LCS 480-479563/2-A
Matrix: Water
Analysis Batch: 479734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479563

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.400	0.423		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-479563/3-A
Matrix: Water
Analysis Batch: 479734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479563

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.263		mg/L		105	90 - 110		

Method: 9040C - pH

Lab Sample ID: LCS 480-478553/1
Matrix: Water
Analysis Batch: 478553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: LCS 480-478553/23
Matrix: Water
Analysis Batch: 478553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-481178/3
Matrix: Water
Analysis Batch: 481178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND	U	2.0		mg/L			07/08/19 12:36	1

Lab Sample ID: LCS 480-481178/4
Matrix: Water
Analysis Batch: 481178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness			214	208		mg/L		97	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-478576/1
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	10		mg/L			06/19/19 10:48	1

Lab Sample ID: LCS 480-478576/2
Matrix: Water
Analysis Batch: 478576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	509		mg/L		102	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-478791/1
Matrix: Water
Analysis Batch: 478791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			06/20/19 10:06	1

Lab Sample ID: LCS 480-478791/2
Matrix: Water
Analysis Batch: 478791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			260	252		mg/L		97	88 - 110		

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 480-478413/3
Matrix: Water
Analysis Batch: 478413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND	U	0.020		mg/L			06/18/19 12:40	1

Lab Sample ID: LCS 480-478413/4
Matrix: Water
Analysis Batch: 478413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorine, Total Residual			0.900	0.879		mg/L		98	90 - 110		

Lab Sample ID: 480-154925-1 DU
Matrix: Leachate
Analysis Batch: 478413

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chlorine, Total Residual	ND	U		ND	U	mg/L				NC	20

QC Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-479735/27
Matrix: Water
Analysis Batch: 479735

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND	U	0.010		mg/L			06/26/19 12:15	1

Lab Sample ID: LCS 480-479735/28
Matrix: Water
Analysis Batch: 479735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus			0.200	0.203		mg/L		101	90 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481318/27
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/07/19 00:29	1

Lab Sample ID: LCS 480-481318/28
Matrix: Water
Analysis Batch: 481318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	58.1		mg/L		97	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

GC/MS VOA

Analysis Batch: 478257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	8260C	
480-154925-2	TB	Total/NA	WQ	8260C	
MB 480-478257/7	Method Blank	Total/NA	Water	8260C	
LCS 480-478257/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 478248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	3510C	
MB 480-478248/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-478248/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 479465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-478248/1-A	Method Blank	Total/NA	Water	8270D	478248
LCS 480-478248/2-A	Lab Control Sample	Total/NA	Water	8270D	478248

Analysis Batch: 479705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	8270D	478248

GC Semi VOA

Prep Batch: 478069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	3510C	
MB 480-478069/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-478069/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 478238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	8081B	478069
MB 480-478069/1-A	Method Blank	Total/NA	Water	8081B	478069
LCS 480-478069/2-A	Lab Control Sample	Total/NA	Water	8081B	478069

Metals

Prep Batch: 386583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	1631E	
MB 240-386583/1-A	Method Blank	Total/NA	Water	1631E	
LCS 240-386583/2-A	Lab Control Sample	Total/NA	Water	1631E	

Analysis Batch: 386791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	1631E	386583
MB 240-386583/1-A	Method Blank	Total/NA	Water	1631E	386583
LCS 240-386583/2-A	Lab Control Sample	Total/NA	Water	1631E	386583

Metals

Prep Batch: 478172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	3005A	
MB 480-478172/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-478172/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 478542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	6010C	478172
MB 480-478172/1-A	Method Blank	Total/NA	Water	6010C	478172
LCS 480-478172/2-A	Lab Control Sample	Total/NA	Water	6010C	478172

Prep Batch: 575821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	3010A	
MB 680-575821/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-575821/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 576159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	6020A	575821
MB 680-575821/1-A	Method Blank	Total/NA	Water	6020A	575821
LCS 680-575821/2-A	Lab Control Sample	Total/NA	Water	6020A	575821

General Chemistry

Analysis Batch: 477922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	353.2	

Analysis Batch: 477924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	353.2	

Analysis Batch: 478413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 4500 Cl G	
MB 480-478413/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 480-478413/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
480-154925-1 DU	TANK	Total/NA	Leachate	SM 4500 Cl G	

Analysis Batch: 478553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	9040C	
LCS 480-478553/1	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-478553/23	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 478576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 2540C	
MB 480-478576/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-478576/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 478791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 2540D	
MB 480-478791/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-478791/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 479563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	9012B	
MB 480-479563/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-479563/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-479563/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 479734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	9012B	479563
MB 480-479563/1-A	Method Blank	Total/NA	Water	9012B	479563
LCS 480-479563/2-A	Lab Control Sample	Total/NA	Water	9012B	479563
LCS 480-479563/3-A	Lab Control Sample	Total/NA	Water	9012B	479563

Analysis Batch: 479735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 4500 P E	
MB 480-479735/27	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-479735/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 480527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	410.4	
MB 480-480527/3	Method Blank	Total/NA	Water	410.4	
MB 480-480527/51	Method Blank	Total/NA	Water	410.4	
LCS 480-480527/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-480527/52	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 480771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	1664B	
MB 480-480771/2-A	Method Blank	Total/NA	Water	1664B	
LCS 480-480771/1-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 480839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	1664B	480771
MB 480-480771/2-A	Method Blank	Total/NA	Water	1664B	480771
LCS 480-480771/1-A	Lab Control Sample	Total/NA	Water	1664B	480771

Analysis Batch: 481043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	1010A	
LCS 480-481043/1	Lab Control Sample	Total/NA	Water	1010A	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Annual Leachate Tank

Job ID: 480-154925-1

General Chemistry

Analysis Batch: 481178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 2340C	
MB 480-481178/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-481178/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 481318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 5310C	
MB 480-481318/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481318/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 481590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	Distill/Ammonia	
MB 480-481590/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481590/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 481627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	350.1	481590
MB 480-481590/1-A	Method Blank	Total/NA	Water	350.1	481590
LCS 480-481590/2-A	Lab Control Sample	Total/NA	Water	350.1	481590

Analysis Batch: 482055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 5210B	

Biology

Analysis Batch: 482056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	SM 9223B	

Field Service / Mobile Lab

Analysis Batch: 478786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154925-1	TANK	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Client Sample ID: TANK
Lab Sample ID: 480-154925-1
Date Collected: 06/13/19 16:30
Matrix: Leachate
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	478257	06/18/19 13:26	OMI	TAL BUF
Total/NA	Prep	3510C			478248	06/18/19 07:53	JMP	TAL BUF
Total/NA	Analysis	8270D		10	479705	06/26/19 17:43	RJS	TAL BUF
Total/NA	Prep	3510C			478069	06/17/19 08:27	JMP	TAL BUF
Total/NA	Analysis	8081B		2	478238	06/18/19 17:09	JLS	TAL BUF
Total/NA	Prep	1631E			386583	06/17/19 15:00	DTN	TAL CAN
Total/NA	Analysis	1631E		1	386791	06/18/19 11:58	DTN	TAL CAN
Total/NA	Prep	3005A			478172	06/18/19 07:04	JMP	TAL BUF
Total/NA	Analysis	6010C		1	478542	06/19/19 00:57	AMH	TAL BUF
Total/NA	Prep	3010A			575821	06/26/19 12:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	576159	06/27/19 23:37	BJB	TAL SAV
Total/NA	Analysis	1010A		1	481043	07/07/19 15:39	MDL	TAL BUF
Total/NA	Prep	1664B			480771	07/03/19 11:30	MJB	TAL BUF
Total/NA	Analysis	1664B		1	480839	07/03/19 15:12	MJB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481590	07/11/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	481627	07/11/19 10:14	CLT	TAL BUF
Total/NA	Analysis	353.2		1	477922	06/14/19 18:34	SMH	TAL BUF
Total/NA	Analysis	353.2		1	477924	06/14/19 18:34	SMH	TAL BUF
Total/NA	Analysis	410.4		20	480527	07/02/19 09:19	EAG	TAL BUF
Total/NA	Prep	9012B			479563	06/25/19 16:52	AJL	TAL BUF
Total/NA	Analysis	9012B		1	479734	06/26/19 12:04	MDL	TAL BUF
Total/NA	Analysis	9040C		1	478553	06/18/19 15:25	KMF	TAL BUF
Total/NA	Analysis	SM 2340C		1	481178	07/08/19 12:36	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	478576	06/19/19 10:48	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	478791	06/20/19 10:06	RAF	TAL BUF
Total/NA	Analysis	SM 4500 Cl G		5	478413	06/18/19 12:40	MDL	TAL BUF
Total/NA	Analysis	SM 4500 P E		10	479735	06/26/19 12:15	RP	TAL BUF
Total/NA	Analysis	SM 5210B		1	482055	06/19/19 09:59	CTB	KAT
Total/NA	Analysis	SM 5310C		4	481318	07/07/19 04:39	CLA	TAL BUF
Total/NA	Analysis	SM 9223B		1	482056	06/14/19 20:30	CTB	KAT
Total/NA	Analysis	Field Sampling		1	478786	06/13/19 16:30	FLD	TAL BUF

Client Sample ID: TB
Lab Sample ID: 480-154925-2
Date Collected: 06/13/19 00:00
Matrix: WQ
Date Received: 06/14/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	478257	06/18/19 13:50	OMI	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-20
California	State		2931	04-01-20
California	State Program	9	2931	04-01-20
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-20
Florida	NELAP		E87672	06-21-20
Georgia	State Program	4	10026 (NY)	03-31-20
Georgia	State Program	4	956	03-31-20
Illinois	NELAP	5	200003	09-30-19
Iowa	State Program	7	374	02-28-21
Kansas	NELAP	7	E-10187	01-31-20
Kentucky (DW)	State Program	4	90029	12-31-19
Kentucky (WW)	State Program	4	90029	12-31-19
Louisiana	NELAP	6	02031	06-30-20
Maryland	State Program	3	294	03-31-20
Massachusetts	State Program	1	M-NY044	06-30-20
Michigan	State Program	5	9937	03-31-20
Minnesota	NELAP	5	036-999-337	12-31-19
New Hampshire	NELAP	1	2337	11-17-19
New Jersey	NELAP	2	NY455	06-30-20
New Jersey	NELAP		NY455	06-25-20
New York	NELAP	2	10026	03-31-20
New York	NELAP		10026	04-01-20
North Dakota	State Program	8	R-176	03-31-20
Oklahoma	State		9421	08-31-19
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-20
Oregon	NELAP		NY200003	06-10-20
Pennsylvania	NELAP	3	68-00281	07-31-19 *
Pennsylvania	NELAP		68-00281	07-31-19
Rhode Island	State Program	1	LAO00328	12-30-19
Tennessee	State Program	4	TN02970	03-31-20
Texas	NELAP	6	T104704412-15-6	07-31-19 *
Texas	NELAP		T104704412-18-10	07-31-19
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-20
Wisconsin	State Program	5	998310390	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State		2927	02-23-20
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-20
Illinois	NELAP	5	200004	07-31-19 *
Illinois	NELAP		004498	07-31-19
Iowa	State Program	7	421	06-01-21
Kansas	NELAP	7	E-10336	04-30-20
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19 *
Nevada	State		OH00048	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-20
New York	NELAP	2	10975	03-31-20
New York	NELAP		10975	03-31-20
Ohio VAP	State Program	5	CL0024	06-05-21
Oregon	NELAP	10	4062	02-23-20
Oregon	NELAP		4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Pennsylvania	NELAP		68-00340	08-31-19
Texas	NELAP	6	T104704517-18-10	08-31-19 *
Texas	NELAP		T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19 *
Virginia	NELAP		010101	09-14-19
Washington	State		C971	01-12-20
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State		210	12-31-19
West Virginia DEP	State Program	3	210	12-31-19

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maine	State Program	1	GA00006	09-25-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 Cl G	Chlorine, Residual	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 5310C	TOC	SM	TAL BUF
SM 9223B	Coliforms, Total, and E.Coli	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154925-1	TANK	Leachate	06/13/19 16:30	06/14/19 09:00	
480-154925-2	TB	WQ	06/13/19 00:00	06/14/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-154925-1
Project/Site: Crossroads ME-Annual Leachate Tank

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Leachate	Total/NA	mg/L	0.0090	0.015
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Selenium	Leachate	Total/NA	mg/L	0.010	0.025
6020A	Aluminum	Leachate	Total/NA	mg/L	0.050	0.1

June 25, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM5950
Project ID: Waste Management Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): June 13, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

06/25/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-1
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
GARAGE	AQ	13-JUN-19 14:00:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:55:00	SM 5210B	14-JUN-19 954	BR		

Katahdin Analytical Services SM5950 page 0000003 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-2
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	13-JUN-19 16:30:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	83. mg/L	80.	9.3	SM 5210B	WG255414	19-JUN-19 09:59:00	SM 5210B	14-JUN-19 958	BR		

Katahdin Analytical Services SM5950 page 0000004 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-3
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
TOTMAN	AQ	13-JUN-19 13:33:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	U2.0 mg/L	2.0	0.23	SM 5210B	WG255414	19-JUN-19 09:51:00	SM 5210B	14-JUN-19 950	BR		

Katahdin Analytical Services SM5950 page 0000005 of 0000012

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM5950-5
Report Date: 25-JUN-19
Client PO:
Project: Waste Management Crossroads
SDG: SM5950

Sample Description	Matrix	Date Sampled	Date Received
45SD	AQ	13-JUN-19 11:35:00	13-JUN-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	4.4 mg/L	3.0	0.35	SM 5210B	WG255414	19-JUN-19 09:48:00	SM 5210B	14-JUN-19 947	BR		

Katahdin Analytical Services SM5950 page 0000006 of 0000012

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG255414	SM 5210B	19-JUN-19	14-JUN-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG255414-2	LCS	WG255414	19-JUN-19	14-JUN-19	mg/L	198	210	104	85-115	

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM5950
Waste Management
Project: Crossroads
Client PO:
Report Date: 25-JUN-19

Lab ID: SM5950-1 **Client ID:** GARAGE **Collected Date:** 13-JUN-19 14:00:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

Lab ID: SM5950-2 **Client ID:** TANK **Collected Date:** 13-JUN-19 16:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	75 /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	Colilert/Quantitray

Lab ID: SM5950-4 **Client ID:** TRANS **Collected Date:** 13-JUN-19 14:30:00 **Received Date:** 13-JUN-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	Absent /100mL	13-JUN-19	14-JUN-19 20:30:00	HM	RB	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: TEST AMERICA	KAS PM: GN	Sampled By: LC NA	
Project: CROSSROADS	KIMS Entry By: GN	Delivered By: NA	
KAS Work Order#: SM 5950	KIMS Review By: SC	Received By: ~~GB~~ NA	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/13/19 1945	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 2.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included			✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman, Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 5950**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives										
					Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
					BOD	T-Collform	E-Coliform								
	Garage	6/13/2019 1400	AQ	2	1	1									
	TANK	6/13/2019 1630	AQ	2	1		1								
	Totman	6/13/2019 1333	AQ	1	1										
	TRANS	6/13/2019 1430	AQ	1		1									
	45SD	6/13/2019 1135	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	6/13/19 1945				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 14, 2019
08:46 AM

Login Number: SM5950

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	2.9
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM5950-1	GARAGE	13-JUN-19 14:00	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-2	TANK	13-JUN-19 16:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_ECOLI_COL	14-JUN-19			
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-3	TOTMAN	13-JUN-19 13:33	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

SM5950-4	TRANS	13-JUN-19 14:30	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	14-JUN-19			

SM5950-5	45SD	13-JUN-19 11:35	13-JUN-19			25-JUN-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SM5210B-TBOD	15-JUN-19	250mL Plastic		

Total Samples: **5** ***Total Analyses:*** **7**

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128059-22892.1
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Waste Management				Job #: 154925
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 82	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate Tank (4)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wastewater, Sludge, Groundwater, Air=Air, Solid, Oil=Oil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	6020A - Total Metals ICPMS (All)	1631E - Mercury	8081B - Heptachlor	8270D - Semi-volatiles	365.1, 410.4, 4500_P_E	4500_Cl_G - Chlorine, Total Residual	6010C - Total Metals ICP	2340C - Hardness	1664A_Calc - Oil & Grease	5310C - Total Organic Carbon	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	Total Number of containers	Special Instructions/Note:
			(Preservation Code:				A	D	N	N	N	S	N	D	D	S	A	N	N		
TB				Water	N		3													3	
TANK	6/13/19	1430	G	Water	N	N	3	1	2	2	2	1	1	1	1	2	2	0	1	19	*BOD WAS SUBBED TO KATAHDIN

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/13/19 1800	Company: KAS	Received by: Denise Giglia for Cameron Wallace
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: 6/14/19 09:00 Company: ETAB
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-128059-22892.2
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Annual Leachate Tank (4)	Project #: 46003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8240C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9012B - Cyanide, Total	9223B - Escherichia coli	353.2, 300.0_Nitrite, Nitrate_Calc	9040C - pH	1010A - Flashpoint	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	B	R	N	N	N	X	
TB				Water											
TANK	6/13/19	1630	G	Water	N	N	1	X	1	0	2	1	1	6	*E-COLI WAS SUBBED TO KATAHDIN

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 6/13/19 1800	Company: K&S	Received by: Denise Giglia for Cameron Wallace
Relinquished by:	Date/Time:	Company:	Received by: Cameron Wallace
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time: 6/14/19 09:00 Company: ETAB

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

24/C2.5

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-50253.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-154925-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 7/5/2019			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep	Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
TANK (480-154925-1)	6/13/19	16:30 Eastern		Water			X		2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 6/14/19 1700	Company: TAB	Received by:	Date/Time: 6/15/19 0950	Company: ETAC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

7/15/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 480-

Client TA Buffalo Site Name

Cooler unpacked by: Darcy Burns

Cooler Received on 6/15/19 Opened on 6/16/19

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.5 °C
   IR GUN #36 (CF +0.6°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were the seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
   -Were tamper/custody seals intact and uncompromised? (Yes) No NA
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No NOT B
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes (No)
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? (Yes) No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC984738**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____ Yes No
16. Was a LL Hg or Me Hg trip blank present? ____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

VOA Sample Preservation - Date/Time VOAs Frozen: ____

WI-NC-099

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-50252.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-154925-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 7/2/2019			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A Total Metals ICPMS (Al)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK (480-154925-1)	6/13/19	16:30 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6-14-19 1700			6-15-19 1000	
2	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7/2.3

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: TANK (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

X-Other:

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/13/19	8.17	1608.1	15.9	26.2	8.3	481	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL

Odor: STRONG

Color: DK BROWN

Other:

Weather Conditions (required daily, or as conditions change):

Direction/Speed: SE 5-10

Outlook: CLOUDY

Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/13/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample; YELLOW - Returned to Client; PINK - Field Copy

TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154925-1

Login Number: 154925
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-154925-1

Login Number: 154925
List Number: 3
Creator: Bland, Brian C

List Source: Eurofins TestAmerica, Savannah
List Creation: 06/17/19 03:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-155237-1
Client Project/Site: Crossroads ME-Wick Drain
Sampling Event: Wick Drain's - (4,8,11)
Revision: 1

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
7/19/2019 10:31:07 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-155237-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-155237-1

Comments
This report have been revised to include a narrative comment for missed Nitrate hold times.

Receipt
The samples were received on 6/18/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-479125 recovered outside control limits for the following analytes: Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted:TB (480-155237-2).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-479185 recovered outside control limits for the following analytes: Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: 8BCWD (480-155237-1).

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: 8BCWD (480-155237-1). The sample(s) were analyzed within 7 days per EPA recommendation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-479419/21)recovered above the upper control limits for Total Iron and Chromium. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-479057/2-A) and (MB 480-479057/1-A) was not performed.

Method(s) 6010C: The Total Arsenic and Iron results reported for the following sample do not concur with results previously reported for this site: 8BCWD (480-155237-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The results reported for Dissolved Arsenic and Iron for the following sample do not concur with results previously reported for this site: 8BCWD (480-155237-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6020A: The method blank for preparation batch 480-479060 contained Total Silver above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of sample 8BCWD (480-155237-1) were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 353.2: The following sample was analyzed outside of analytical holding time due to laboratory error: 8BCWD (480-155237-1).

Method(s) 9251: The method blank for analytical batch 480-480648 contained Chloride above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. 8BCWD (480-155237-1)

Method(s) 9038: The results reported for the following sample do not concur with results previously reported for this site: 8BCWD (480-155237-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: 8BCWD — Lab Sample ID: 480-155237-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0		ug/L	1		8260C	Total/NA
Chloroethane	3.4		1.0		ug/L	1		8260C	Total/NA
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Barium	0.10		0.0050		mg/L	1		6010C	Total/NA
Calcium	60		0.15		mg/L	1		6010C	Total/NA
Iron	14		0.030		mg/L	1		6010C	Total/NA
Magnesium	30		0.24		mg/L	1		6010C	Total/NA
Manganese	1.7		0.010		mg/L	1		6010C	Total/NA
Potassium	17		1.0		mg/L	1		6010C	Total/NA
Sodium	71		0.40		mg/L	1		6010C	Total/NA
Arsenic	0.013		0.010		mg/L	1		6010C	Dissolved
Barium	0.10		0.0050		mg/L	1		6010C	Dissolved
Calcium	61		0.50		mg/L	1		6010C	Dissolved
Iron	13		0.030		mg/L	1		6010C	Dissolved
Magnesium	31		0.20		mg/L	1		6010C	Dissolved
Manganese	1.8		0.010		mg/L	1		6010C	Dissolved
Potassium	17		0.20		mg/L	1		6010C	Dissolved
Sodium	73		0.40		mg/L	1		6010C	Dissolved
Specific Conductance (25C)	930		1.0		umhos/cm	1		120.1	Total/NA
Alkalinity, Total	370		40		mg/L	4		310.2	Total/NA
Ammonia as N	8.8		1.0		mg/L	5		350.1	Total/NA
Chemical Oxygen Demand	71		10		mg/L	1		410.4	Total/NA
Sulfate	15		5.0		mg/L	1		9038	Total/NA
Chloride	64	BL	1.0		mg/L	2		9251	Total/NA
Anion/Cation Balance	-33				%	1		SM 1030E	Total/NA
Calculated TDS	380				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.71				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	520		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	15		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	31.6				NTU	1		Field Sampling	Total/NA
Temperature	22.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.29				SU	1		Field Sampling	Total/NA
Specific Conductance	809				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	12.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.0				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-155237-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: 8BCWD

Date Collected: 06/17/19 12:15
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/23/19 11:09	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/23/19 11:09	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/23/19 11:09	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/23/19 11:09	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/23/19 11:09	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/23/19 11:09	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/23/19 11:09	1
2-Hexanone	ND	U	5.0		ug/L			06/23/19 11:09	1
2-Butanone	ND	U	10		ug/L			06/23/19 11:09	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/23/19 11:09	1
Acetone	ND	U	10		ug/L			06/23/19 11:09	1
Benzene	**1.5**		1.0		ug/L			06/23/19 11:09	1
Bromodichloromethane	ND	U	1.0		ug/L			06/23/19 11:09	1
Bromoform	ND	U	1.0		ug/L			06/23/19 11:09	1
Bromomethane	ND	U	1.0		ug/L			06/23/19 11:09	1
Carbon disulfide	ND	U	1.0		ug/L			06/23/19 11:09	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/23/19 11:09	1
Chlorobenzene	ND	U	1.0		ug/L			06/23/19 11:09	1
Dibromochloromethane	ND	U	1.0		ug/L			06/23/19 11:09	1
Chloroethane	**3.4**		1.0		ug/L			06/23/19 11:09	1
Chloroform	ND	U	1.0		ug/L			06/23/19 11:09	1
Chloromethane	ND	U	1.0		ug/L			06/23/19 11:09	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/23/19 11:09	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/23/19 11:09	1
Ethylbenzene	ND	U	1.0		ug/L			06/23/19 11:09	1
Methylene Chloride	ND	U	1.0		ug/L			06/23/19 11:09	1
Styrene	ND	U	1.0		ug/L			06/23/19 11:09	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/23/19 11:09	1
Toluene	ND	U	1.0		ug/L			06/23/19 11:09	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/23/19 11:09	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/23/19 11:09	1
Trichloroethene	ND	U	1.0		ug/L			06/23/19 11:09	1
Vinyl acetate	ND	U	5.0		ug/L			06/23/19 11:09	1
Vinyl chloride	ND	U	1.0		ug/L			06/23/19 11:09	1
Xylenes, Total	ND	U	2.0		ug/L			06/23/19 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*			*06/23/19 11:09*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*			*06/23/19 11:09*	*1*
4-Bromofluorobenzene (Surr)	*116*		*73 - 120*			*06/23/19 11:09*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*			*06/23/19 11:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		06/24/19 08:30	06/24/19 18:29	1
Barium	**0.10**		0.0050		mg/L		06/24/19 08:30	06/24/19 18:29	1
Calcium	**60**		0.15		mg/L		06/24/19 08:30	06/24/19 18:29	1
Chromium	ND	U	0.010		mg/L		06/24/19 08:30	06/24/19 18:29	1
Iron	**14**		0.030		mg/L		06/24/19 08:30	06/24/19 18:29	1
Magnesium	**30**		0.24		mg/L		06/24/19 08:30	06/24/19 18:29	1

Client Sample ID: 8BCWD

Date Collected: 06/17/19 12:15
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.010		mg/L		06/24/19 08:30	06/24/19 18:29	1
Nickel	ND	U	0.040		mg/L		06/24/19 08:30	06/24/19 18:29	1
Potassium	17		1.0		mg/L		06/24/19 08:30	06/24/19 18:29	1
Sodium	71		0.40		mg/L		06/24/19 08:30	06/24/19 18:29	1
Vanadium	ND	U	0.025		mg/L		06/24/19 08:30	06/24/19 18:29	1
Zinc	ND	U	0.020		mg/L		06/24/19 08:30	06/24/19 18:29	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013		0.010		mg/L		06/25/19 07:40	06/25/19 20:06	1
Barium	0.10		0.0050		mg/L		06/25/19 07:40	06/25/19 20:06	1
Calcium	61		0.50		mg/L		06/25/19 07:40	06/25/19 20:06	1
Chromium	ND	U	0.010		mg/L		06/25/19 07:40	06/25/19 20:06	1
Iron	13		0.030		mg/L		06/25/19 07:40	06/25/19 20:06	1
Magnesium	31		0.20		mg/L		06/25/19 07:40	06/25/19 20:06	1
Manganese	1.8		0.010		mg/L		06/25/19 07:40	06/25/19 20:06	1
Nickel	ND	U	0.040		mg/L		06/25/19 07:40	06/25/19 20:06	1
Potassium	17		0.20		mg/L		06/25/19 07:40	06/25/19 20:06	1
Sodium	73		0.40		mg/L		06/25/19 07:40	06/25/19 20:06	1
Vanadium	ND	U	0.040		mg/L		06/25/19 07:40	06/25/19 20:06	1
Zinc	ND	U	0.020		mg/L		06/25/19 07:40	06/25/19 20:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		06/24/19 07:52	06/25/19 13:50	1
Copper	ND	U	0.0020		mg/L		06/24/19 07:52	06/26/19 12:29	1
Silver	ND	U	0.00020		mg/L		06/24/19 07:52	06/26/19 12:29	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		06/26/19 07:39	06/26/19 19:32	1
Copper	ND	U	0.0020		mg/L		06/26/19 07:39	06/27/19 12:37	1
Silver	ND	U	0.00020		mg/L		06/28/19 06:43	07/02/19 17:09	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-33				%			07/16/19 11:06	1
Calculated TDS	380				mg/L			07/16/19 11:06	1
TDS Ratio	1.4				NONE			07/16/19 11:06	1
TDS to Conductivity Ratio	0.71				NONE			07/16/19 11:06	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	370		40		mg/L			07/02/19 17:33	4
Ammonia as N	8.8		1.0		mg/L		07/11/19 09:30	07/11/19 12:04	5
Nitrate	ND	U	0.050		mg/L as N			06/21/19 16:43	1
Chemical Oxygen Demand	71		10		mg/L			06/30/19 10:16	1
Sulfate	15		5.0		mg/L			07/17/19 16:37	1
Chloride	64	BL	1.0		mg/L			07/02/19 17:38	2
Total Dissolved Solids	520		5.0		mg/L			06/24/19 08:33	1
Total Organic Carbon	15		1.0		mg/L			07/10/19 11:26	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: 8BCWD

Date Collected: 06/17/19 12:15
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-1

Matrix: Ground Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	930		1.0		umhos/cm			06/25/19 11:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	31.6				NTU			06/17/19 12:15	1
Temperature	22.3				Degrees C			06/17/19 12:15	1
Field pH	6.29				SU			06/17/19 12:15	1
Specific Conductance	809				umhos/cm			06/17/19 12:15	1
Field EH/ORP	12.4				millivolts			06/17/19 12:15	1
Oxygen, Dissolved	2.0				mg/L			06/17/19 12:15	1

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: TB

Date Collected: 06/17/19 00:00
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/22/19 14:46	1
2-Hexanone	ND	U	5.0		ug/L			06/22/19 14:46	1
2-Butanone	ND	U	10		ug/L			06/22/19 14:46	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/22/19 14:46	1
Acetone	ND	U	10		ug/L			06/22/19 14:46	1
Benzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromodichloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromoform	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromomethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Carbon disulfide	ND	U	1.0		ug/L			06/22/19 14:46	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Chlorobenzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Dibromochloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloroform	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 14:46	1
Ethylbenzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Methylene Chloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Styrene	ND	U	1.0		ug/L			06/22/19 14:46	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/22/19 14:46	1
Toluene	ND	U	1.0		ug/L			06/22/19 14:46	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 14:46	1
Trichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
Vinyl acetate	ND	U	5.0		ug/L			06/22/19 14:46	1
Vinyl chloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Xylenes, Total	ND	U	2.0		ug/L			06/22/19 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*06/22/19 14:46*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/19 14:46*	*1*
4-Bromofluorobenzene (Surr)	*117*		*73 - 120*		*06/22/19 14:46*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*06/22/19 14:46*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-155237-1	8BCWD	104	104	116	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-479125/5	Lab Control Sample	106	105	111	105
LCS 480-479185/5	Lab Control Sample	101	105	115	102
MB 480-479125/7	Method Blank	109	105	117	107
MB 480-479185/7	Method Blank	101	107	117	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-155237-2	TB	112	105	117	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-479125/7
Matrix: Water
Analysis Batch: 479125

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/22/19 13:14	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/22/19 13:14	1
2-Hexanone	ND	U	5.0		ug/L			06/22/19 13:14	1
2-Butanone	ND	U	10		ug/L			06/22/19 13:14	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/22/19 13:14	1
Acetone	ND	U	10		ug/L			06/22/19 13:14	1
Benzene	ND	U	1.0		ug/L			06/22/19 13:14	1
Bromodichloromethane	ND	U	1.0		ug/L			06/22/19 13:14	1
Bromoform	ND	U	1.0		ug/L			06/22/19 13:14	1
Bromomethane	ND	U	1.0		ug/L			06/22/19 13:14	1
Carbon disulfide	ND	U	1.0		ug/L			06/22/19 13:14	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/22/19 13:14	1
Chlorobenzene	ND	U	1.0		ug/L			06/22/19 13:14	1
Dibromochloromethane	ND	U	1.0		ug/L			06/22/19 13:14	1
Chloroethane	ND	U	1.0		ug/L			06/22/19 13:14	1
Chloroform	ND	U	1.0		ug/L			06/22/19 13:14	1
Chloromethane	ND	U	1.0		ug/L			06/22/19 13:14	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 13:14	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 13:14	1
Ethylbenzene	ND	U	1.0		ug/L			06/22/19 13:14	1
Methylene Chloride	ND	U	1.0		ug/L			06/22/19 13:14	1
Styrene	ND	U	1.0		ug/L			06/22/19 13:14	1
Tetrachloroethene	ND	U	1.0		ug/L			06/22/19 13:14	1
Toluene	ND	U	1.0		ug/L			06/22/19 13:14	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 13:14	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 13:14	1
Trichloroethene	ND	U	1.0		ug/L			06/22/19 13:14	1
Vinyl acetate	ND	U	5.0		ug/L			06/22/19 13:14	1
Vinyl chloride	ND	U	1.0		ug/L			06/22/19 13:14	1
Xylenes, Total	ND	U	2.0		ug/L			06/22/19 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/22/19 13:14*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/19 13:14*	*1*
4-Bromofluorobenzene (Surr)	*117*		*73 - 120*		*06/22/19 13:14*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*06/22/19 13:14*	*1*

Lab Sample ID: LCS 480-479125/5
Matrix: Water
Analysis Batch: 479125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	26.7		ug/L		107	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-479125/5
Matrix: Water
Analysis Batch: 479125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	19.4		ug/L		78	76 - 120
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	23.5		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	24.4		ug/L		97	66 - 127
1,2-Dichloroethane	25.0	26.2		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		105	76 - 120
2-Hexanone	125	115		ug/L		92	65 - 127
2-Butanone	125	127		ug/L		102	57 - 140
4-Methyl-2-pentanone	125	107		ug/L		86	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	26.4		ug/L		106	71 - 124
Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122
Bromoform	25.0	23.3		ug/L		93	61 - 132
Bromomethane	25.0	26.3		ug/L		105	55 - 144
Carbon disulfide	25.0	22.4		ug/L		90	59 - 134
Carbon tetrachloride	25.0	26.1		ug/L		104	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Dibromochloromethane	25.0	24.9		ug/L		100	75 - 125
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	21.9		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	74 - 124
Ethylbenzene	25.0	24.6		ug/L		99	77 - 123
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
Styrene	25.0	25.1		ug/L		101	80 - 120
Tetrachloroethene	25.0	31.0	*	ug/L		124	74 - 122
Toluene	25.0	25.9		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	80 - 120
Trichloroethene	25.0	26.9		ug/L		108	74 - 123
Vinyl acetate	50.0	45.9		ug/L		92	50 - 144
Vinyl chloride	25.0	21.9		ug/L		87	65 - 133
Xylenes, Total	50.0	50.9		ug/L		102	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Lab Sample ID: MB 480-479185/7
Matrix: Water
Analysis Batch: 479185

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0	ug/L			06/23/19 10:26	1
1,1,2,2-Tetrachloroethane	ND	U	1.0	ug/L			06/23/19 10:26	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-479185/7
Matrix: Water
Analysis Batch: 479185

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/23/19 10:26	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/23/19 10:26	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/23/19 10:26	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/23/19 10:26	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/23/19 10:26	1
2-Hexanone	ND	U	5.0		ug/L			06/23/19 10:26	1
2-Butanone	ND	U	10		ug/L			06/23/19 10:26	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/23/19 10:26	1
Acetone	ND	U	10		ug/L			06/23/19 10:26	1
Benzene	ND	U	1.0		ug/L			06/23/19 10:26	1
Bromodichloromethane	ND	U	1.0		ug/L			06/23/19 10:26	1
Bromoform	ND	U	1.0		ug/L			06/23/19 10:26	1
Bromomethane	ND	U	1.0		ug/L			06/23/19 10:26	1
Carbon disulfide	ND	U	1.0		ug/L			06/23/19 10:26	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/23/19 10:26	1
Chlorobenzene	ND	U	1.0		ug/L			06/23/19 10:26	1
Dibromochloromethane	ND	U	1.0		ug/L			06/23/19 10:26	1
Chloroethane	ND	U	1.0		ug/L			06/23/19 10:26	1
Chloroform	ND	U	1.0		ug/L			06/23/19 10:26	1
Chloromethane	ND	U	1.0		ug/L			06/23/19 10:26	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/23/19 10:26	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/23/19 10:26	1
Ethylbenzene	ND	U	1.0		ug/L			06/23/19 10:26	1
Methylene Chloride	ND	U	1.0		ug/L			06/23/19 10:26	1
Styrene	ND	U	1.0		ug/L			06/23/19 10:26	1
Tetrachloroethene	ND	U	1.0		ug/L			06/23/19 10:26	1
Toluene	ND	U	1.0		ug/L			06/23/19 10:26	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/23/19 10:26	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/23/19 10:26	1
Trichloroethene	ND	U	1.0		ug/L			06/23/19 10:26	1
Vinyl acetate	ND	U	5.0		ug/L			06/23/19 10:26	1
Vinyl chloride	ND	U	1.0		ug/L			06/23/19 10:26	1
Xylenes, Total	ND	U	2.0		ug/L			06/23/19 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/23/19 10:26*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/23/19 10:26*	*1*
4-Bromofluorobenzene (Surr)	*117*		*73 - 120*		*06/23/19 10:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/23/19 10:26*	*1*

Lab Sample ID: LCS 480-479185/5
Matrix: Water
Analysis Batch: 479185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	25.9		ug/L		103	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	21.6		ug/L		86	76 - 120		
1,1,2-Trichloroethane			25.0	26.2		ug/L		105	76 - 122		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-479185/5
Matrix: Water
Analysis Batch: 479185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	22.7		ug/L		91	77 - 120
1,1-Dichloroethene	25.0	23.2		ug/L		93	66 - 127
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
2-Hexanone	125	121		ug/L		97	65 - 127
2-Butanone	125	127		ug/L		102	57 - 140
4-Methyl-2-pentanone	125	113		ug/L		90	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	25.6		ug/L		102	71 - 124
Bromodichloromethane	25.0	25.9		ug/L		104	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	25.4		ug/L		101	55 - 144
Carbon disulfide	25.0	21.4		ug/L		86	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	27.8		ug/L		111	80 - 120
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125
Chloroethane	25.0	23.5		ug/L		94	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	20.7		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	26.9		ug/L		107	74 - 124
Ethylbenzene	25.0	25.6		ug/L		103	77 - 123
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124
Styrene	25.0	26.6		ug/L		106	80 - 120
Tetrachloroethene	25.0	32.4	*	ug/L		130	74 - 122
Toluene	25.0	26.8		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	80 - 120
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Vinyl acetate	50.0	45.7		ug/L		91	50 - 144
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133
Xylenes, Total	50.0	52.8		ug/L		106	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-479057/1-A
Matrix: Water
Analysis Batch: 479419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479057

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		06/24/19 08:30	06/24/19 16:39	1
Barium	ND	U	0.0050		mg/L		06/24/19 08:30	06/24/19 16:39	1
Calcium	ND	U	0.15		mg/L		06/24/19 08:30	06/24/19 16:39	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-479057/1-A
Matrix: Water
Analysis Batch: 479419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479057

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	U	0.010		mg/L		06/24/19 08:30	06/24/19 16:39	1
Iron	ND	U	0.030		mg/L		06/24/19 08:30	06/24/19 16:39	1
Magnesium	ND	U	0.24		mg/L		06/24/19 08:30	06/24/19 16:39	1
Manganese	ND	U	0.010		mg/L		06/24/19 08:30	06/24/19 16:39	1
Nickel	ND	U	0.040		mg/L		06/24/19 08:30	06/24/19 16:39	1
Potassium	ND	U	1.0		mg/L		06/24/19 08:30	06/24/19 16:39	1
Sodium	ND	U	0.40		mg/L		06/24/19 08:30	06/24/19 16:39	1
Vanadium	ND	U	0.025		mg/L		06/24/19 08:30	06/24/19 16:39	1
Zinc	ND	U	0.020		mg/L		06/24/19 08:30	06/24/19 16:39	1

Lab Sample ID: LCS 480-479057/2-A
Matrix: Water
Analysis Batch: 479419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.199		mg/L		100	80 - 120
Barium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	9.88		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Iron	10.0	9.97		mg/L		100	80 - 120
Magnesium	10.0	9.65		mg/L		97	80 - 120
Manganese	0.200	0.197		mg/L		98	80 - 120
Nickel	0.200	0.195		mg/L		98	80 - 120
Potassium	10.0	9.49		mg/L		95	80 - 120
Sodium	10.0	9.34		mg/L		93	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.203		mg/L		102	80 - 120

Lab Sample ID: MB 480-479278/1-A
Matrix: Water
Analysis Batch: 479671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479278

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.010		mg/L		06/25/19 07:40	06/25/19 19:08	1
Barium	ND	U	0.0050		mg/L		06/25/19 07:40	06/25/19 19:08	1
Calcium	ND	U	0.50		mg/L		06/25/19 07:40	06/25/19 19:08	1
Chromium	ND	U	0.010		mg/L		06/25/19 07:40	06/25/19 19:08	1
Iron	ND	U	0.030		mg/L		06/25/19 07:40	06/25/19 19:08	1
Magnesium	ND	U	0.20		mg/L		06/25/19 07:40	06/25/19 19:08	1
Manganese	ND	U	0.010		mg/L		06/25/19 07:40	06/25/19 19:08	1
Nickel	ND	U	0.040		mg/L		06/25/19 07:40	06/25/19 19:08	1
Potassium	ND	U	0.20		mg/L		06/25/19 07:40	06/25/19 19:08	1
Sodium	ND	U	0.40		mg/L		06/25/19 07:40	06/25/19 19:08	1
Vanadium	ND	U	0.040		mg/L		06/25/19 07:40	06/25/19 19:08	1
Zinc	ND	U	0.020		mg/L		06/25/19 07:40	06/25/19 19:08	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-479278/2-A
Matrix: Water
Analysis Batch: 479671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.194		mg/L		97	80 - 120
Barium	0.200	0.196		mg/L		98	80 - 120
Calcium	10.0	9.51		mg/L		95	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Iron	10.0	9.50		mg/L		95	80 - 120
Magnesium	10.0	9.64		mg/L		96	80 - 120
Manganese	0.200	0.194		mg/L		97	80 - 120
Nickel	0.200	0.192		mg/L		96	80 - 120
Potassium	10.0	9.21		mg/L		92	80 - 120
Sodium	10.0	9.02		mg/L		90	80 - 120
Vanadium	0.200	0.191		mg/L		96	80 - 120
Zinc	0.200	0.198		mg/L		99	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-479060/1-A
Matrix: Water
Analysis Batch: 479528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479060

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050	mg/L		06/24/19 07:52	06/25/19 13:00	1

Lab Sample ID: MB 480-479060/1-A
Matrix: Water
Analysis Batch: 479753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479060

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020	mg/L		06/24/19 07:52	06/26/19 12:20	1
Silver	0.000315		0.00020	mg/L		06/24/19 07:52	06/26/19 12:20	1

Lab Sample ID: LCS 480-479060/2-A
Matrix: Water
Analysis Batch: 479528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0200	0.0176		mg/L		88	80 - 120

Lab Sample ID: LCS 480-479060/2-A
Matrix: Water
Analysis Batch: 479753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0200	0.0192		mg/L		96	80 - 120
Silver	0.0200	0.0188		mg/L		94	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 480-479540/1-A
Matrix: Water
Analysis Batch: 479876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479540

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		06/26/19 07:39	06/26/19 19:00	1

Lab Sample ID: MB 480-479540/1-A
Matrix: Water
Analysis Batch: 479975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479540

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020		mg/L		06/26/19 07:39	06/27/19 12:32	1

Lab Sample ID: LCS 480-479540/2-A
Matrix: Water
Analysis Batch: 479876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			0.0200	0.0172		mg/L		86	80 - 120		

Lab Sample ID: LCS 480-479540/2-A
Matrix: Water
Analysis Batch: 479975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Copper			0.0200	0.0213		mg/L		107	80 - 120		

Lab Sample ID: MB 480-480029/1-A
Matrix: Water
Analysis Batch: 480677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480029

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	U	0.00020		mg/L		06/28/19 06:43	07/02/19 17:04	1

Lab Sample ID: LCS 480-480029/2-A
Matrix: Water
Analysis Batch: 480677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silver			0.0200	0.0203		mg/L		101	80 - 120		

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: LCS 480-479695/1
Matrix: Water
Analysis Batch: 479695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance (25C)			998	1020		umhos/cm		102	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-480649/53
Matrix: Water
Analysis Batch: 480649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			07/02/19 16:59	1

Lab Sample ID: MB 480-480649/84
Matrix: Water
Analysis Batch: 480649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			07/02/19 17:21	1

Lab Sample ID: LCS 480-480649/54
Matrix: Water
Analysis Batch: 480649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.6		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-480649/85
Matrix: Water
Analysis Batch: 480649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.7		mg/L		95	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-481593/1-A
Matrix: Water
Analysis Batch: 481661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481593

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L		07/11/19 09:30	07/11/19 11:42	1

Lab Sample ID: LCS 480-481593/2-A
Matrix: Water
Analysis Batch: 481661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481593

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.904		mg/L		90	90 - 110		

Lab Sample ID: 480-155237-1 MS
Matrix: Ground Water
Analysis Batch: 481661

Client Sample ID: 8BCWD
Prep Type: Total/NA
Prep Batch: 481593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	8.8		0.500	9.40		mg/L		130	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-480288/27
Matrix: Water
Analysis Batch: 480288

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 10:16	1

Lab Sample ID: MB 480-480288/51
Matrix: Water
Analysis Batch: 480288

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			06/30/19 10:16	1

Lab Sample ID: LCS 480-480288/28
Matrix: Water
Analysis Batch: 480288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.6		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-480288/52
Matrix: Water
Analysis Batch: 480288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.6		mg/L		110	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-482539/38
Matrix: Water
Analysis Batch: 482539

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			07/17/19 16:39	1

Lab Sample ID: LCS 480-482539/37
Matrix: Water
Analysis Batch: 482539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.4		mg/L		98	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-480648/177
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/02/19 17:09	1

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 480-480648/186
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			07/02/19 17:17	1

Lab Sample ID: MB 480-480648/192
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.06		0.50		mg/L			07/02/19 17:37	1

Lab Sample ID: LCS 480-480648/178
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-480648/187
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.4		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-480648/193
Matrix: Water
Analysis Batch: 480648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-479244/1
Matrix: Water
Analysis Batch: 479244

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			06/24/19 08:33	1

Lab Sample ID: LCS 480-479244/2
Matrix: Water
Analysis Batch: 479244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	494		mg/L		99	85 - 115		

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Method: SM 5310C - TOC

Lab Sample ID: MB 480-481551/50
Matrix: Water
Analysis Batch: 481551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			07/10/19 07:35	1

Lab Sample ID: LCS 480-481551/51
Matrix: Water
Analysis Batch: 481551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.6		mg/L		94	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

GC/MS VOA

Analysis Batch: 479125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-2	TB	Total/NA	WQ	8260C	
MB 480-479125/7	Method Blank	Total/NA	Water	8260C	
LCS 480-479125/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 479185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	8260C	
MB 480-479185/7	Method Blank	Total/NA	Water	8260C	
LCS 480-479185/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 479057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	3005A	
MB 480-479057/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-479057/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 479060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	3020A	
MB 480-479060/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-479060/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 479278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	3005A	
MB 480-479278/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-479278/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 479419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	6010C	479057
MB 480-479057/1-A	Method Blank	Total/NA	Water	6010C	479057
LCS 480-479057/2-A	Lab Control Sample	Total/NA	Water	6010C	479057

Analysis Batch: 479528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	6020A	479060
MB 480-479060/1-A	Method Blank	Total/NA	Water	6020A	479060
LCS 480-479060/2-A	Lab Control Sample	Total/NA	Water	6020A	479060

Prep Batch: 479540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	3020A	
MB 480-479540/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-479540/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 479671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	6010C	479278

Metals (Continued)

Analysis Batch: 479671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-479278/1-A	Method Blank	Total/NA	Water	6010C	479278
LCS 480-479278/2-A	Lab Control Sample	Total/NA	Water	6010C	479278

Analysis Batch: 479753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	6020A	479060
MB 480-479060/1-A	Method Blank	Total/NA	Water	6020A	479060
LCS 480-479060/2-A	Lab Control Sample	Total/NA	Water	6020A	479060

Analysis Batch: 479876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	6020A	479540
MB 480-479540/1-A	Method Blank	Total/NA	Water	6020A	479540
LCS 480-479540/2-A	Lab Control Sample	Total/NA	Water	6020A	479540

Analysis Batch: 479975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	6020A	479540
MB 480-479540/1-A	Method Blank	Total/NA	Water	6020A	479540
LCS 480-479540/2-A	Lab Control Sample	Total/NA	Water	6020A	479540

Prep Batch: 480029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	3020A	
MB 480-480029/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-480029/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 480677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Dissolved	Ground Water	6020A	480029
MB 480-480029/1-A	Method Blank	Total/NA	Water	6020A	480029
LCS 480-480029/2-A	Lab Control Sample	Total/NA	Water	6020A	480029

General Chemistry

Analysis Batch: 479128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	353.2	

Analysis Batch: 479244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	SM 2540C	
MB 480-479244/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-479244/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 479695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	120.1	
LCS 480-479695/1	Lab Control Sample	Total/NA	Water	120.1	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

General Chemistry

Analysis Batch: 480288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	410.4	
MB 480-480288/27	Method Blank	Total/NA	Water	410.4	
MB 480-480288/51	Method Blank	Total/NA	Water	410.4	
LCS 480-480288/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-480288/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 480648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	9251	
MB 480-480648/177	Method Blank	Total/NA	Water	9251	
MB 480-480648/186	Method Blank	Total/NA	Water	9251	
MB 480-480648/192	Method Blank	Total/NA	Water	9251	
LCS 480-480648/178	Lab Control Sample	Total/NA	Water	9251	
LCS 480-480648/187	Lab Control Sample	Total/NA	Water	9251	
LCS 480-480648/193	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 480649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	310.2	
MB 480-480649/53	Method Blank	Total/NA	Water	310.2	
MB 480-480649/84	Method Blank	Total/NA	Water	310.2	
LCS 480-480649/54	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-480649/85	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 481551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	SM 5310C	
MB 480-481551/50	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-481551/51	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 481593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	Distill/Ammonia	
MB 480-481593/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-481593/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-155237-1 MS	8BCWD	Total/NA	Ground Water	Distill/Ammonia	

Analysis Batch: 481661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	350.1	481593
MB 480-481593/1-A	Method Blank	Total/NA	Water	350.1	481593
LCS 480-481593/2-A	Lab Control Sample	Total/NA	Water	350.1	481593
480-155237-1 MS	8BCWD	Total/NA	Ground Water	350.1	481593

Analysis Batch: 482255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	SM 1030E	

Analysis Batch: 482539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	9038	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

General Chemistry (Continued)

Analysis Batch: 482539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-482539/38	Method Blank	Total/NA	Water	9038	
LCS 480-482539/37	Lab Control Sample	Total/NA	Water	9038	

Field Service / Mobile Lab

Analysis Batch: 479079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155237-1	8BCWD	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: 8BCWD

Date Collected: 06/17/19 12:15
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	479185	06/23/19 11:09	KMN	TAL BUF
Dissolved	Prep	3005A			479278	06/25/19 07:40	JMP	TAL BUF
Dissolved	Analysis	6010C		1	479671	06/25/19 20:06	EMB	TAL BUF
Total/NA	Prep	3005A			479057	06/24/19 08:30	EMB	TAL BUF
Total/NA	Analysis	6010C		1	479419	06/24/19 18:29	LMH	TAL BUF
Dissolved	Prep	3020A			479540	06/26/19 07:39	EMB	TAL BUF
Dissolved	Analysis	6020A		1	479876	06/26/19 19:32	KMP	TAL BUF
Dissolved	Prep	3020A			479540	06/26/19 07:39	EMB	TAL BUF
Dissolved	Analysis	6020A		1	479975	06/27/19 12:37	KMP	TAL BUF
Dissolved	Prep	3020A			480029	06/28/19 06:43	EMB	TAL BUF
Dissolved	Analysis	6020A		1	480677	07/02/19 17:09	KMP	TAL BUF
Total/NA	Prep	3020A			479060	06/24/19 07:52	EMB	TAL BUF
Total/NA	Analysis	6020A		1	479528	06/25/19 13:50	KMP	TAL BUF
Total/NA	Prep	3020A			479060	06/24/19 07:52	EMB	TAL BUF
Total/NA	Analysis	6020A		1	479753	06/26/19 12:29	KMP	TAL BUF
Total/NA	Analysis	120.1		1	479695	06/25/19 11:58	KMF	TAL BUF
Total/NA	Analysis	310.2		4	480649	07/02/19 17:33	KEB	TAL BUF
Total/NA	Prep	Distill/Ammonia			481593	07/11/19 09:30	CLT	TAL BUF
Total/NA	Analysis	350.1		5	481661	07/11/19 12:04	CLT	TAL BUF
Total/NA	Analysis	353.2		1	479128	06/21/19 16:43	SMH	TAL BUF
Total/NA	Analysis	410.4		1	480288	06/30/19 10:16	EAG	TAL BUF
Total/NA	Analysis	9038		1	482539	07/17/19 16:37	SRW	TAL BUF
Total/NA	Analysis	9251		2	480648	07/02/19 17:38	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	482255	07/16/19 11:06	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	479244	06/24/19 08:33	RAF	TAL BUF
Total/NA	Analysis	SM 5310C		1	481551	07/10/19 11:26	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	479079	06/17/19 12:15	FLD	TAL BUF

Client Sample ID: TB

Date Collected: 06/17/19 00:00
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-2

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	479125	06/22/19 14:46	AMM	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-155237-1
Project/Site: Crossroads ME-Wick Drain

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-20
California	State		2931	04-01-20
California	State Program	9	2931	04-01-20
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-20
Florida	NELAP		E87672	06-21-20
Georgia	State Program	4	10026 (NY)	03-31-20
Georgia	State Program	4	956	03-31-20
Illinois	NELAP	5	200003	09-30-19
Iowa	State Program	7	374	02-28-21
Kansas	NELAP	7	E-10187	01-31-20
Kentucky (DW)	State Program	4	90029	12-31-19
Kentucky (WW)	State Program	4	90029	12-31-19
Louisiana	NELAP	6	02031	06-30-20
Maryland	State Program	3	294	03-31-20
Massachusetts	State Program	1	M-NY044	06-30-20
Michigan	State Program	5	9937	03-31-20
Minnesota	NELAP	5	036-999-337	12-31-19
New Hampshire	NELAP	1	2337	11-17-19
New Jersey	NELAP	2	NY455	06-30-20
New Jersey	NELAP		NY455	06-25-20
New York	NELAP	2	10026	03-31-20
New York	NELAP		10026	04-01-20
North Dakota	State Program	8	R-176	03-31-20
Oklahoma	State		9421	08-31-19
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-20
Oregon	NELAP		NY200003	06-10-20
Pennsylvania	NELAP	3	68-00281	07-31-19 *
Pennsylvania	NELAP		68-00281	07-31-19
Rhode Island	State Program	1	LAO00328	12-30-19
Tennessee	State Program	4	TN02970	03-31-20
Texas	NELAP	6	T104704412-15-6	07-31-19 *
Texas	NELAP		T104704412-18-10	07-31-19
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-20
Wisconsin	State Program	5	998310390	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
120.1	Conductivity, Specific Conductance	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155237-1	8BCWD	Ground Water	06/17/19 12:15	06/18/19 09:00	
480-155237-2	TB	WQ	06/17/19 00:00	06/18/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-155237-1
Project/Site: Crossroads ME-Wick Drain

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Ground Water	Dissolved	mg/L	0.010	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Ground Water	Dissolved	mg/L	0.030	0.05
6010C	Potassium	Ground Water	Dissolved	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Ground Water	Dissolved	mg/L	0.40	1.0
6020A	Silver	Ground Water	Total/NA	mg/L	0.00020	0.0005
6020A	Silver	Ground Water	Dissolved	mg/L	0.00020	0.0005
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10

Chain of Custody Record

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Agustin Loureiro	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207)831-9250	E-Mail: Denise.Giglia@testamericainc.com		

480-155237 Chain of Custody

Company: Waste Management - Norridgewock ME - (Crossroads)

Address: 357 Mercer Road
City: Norridgewock
State, Zip: ME, 04957
Phone: 000-0000
Email:
Project Name: Crossroads ME/
Site: Maine

Due Date Requested:
TAT Requested (Business Days)
PO #: Purchase Order not required
WO #:
Project #: 48063284
SSOW#:

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method		Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	D	A	N	N	N	N	N	A	S	D	N	N		
8AWD	6/17/19	1135	G	Water	N	N															Unfortunately I don't have a copy of the bottle order sheet and I can't accurately fill out the number of bottles and parameters. I'm not sure how many metals bottles were shipped for example or if I should mark "cation/anion", or whether TSS is analyzed. This is an old chain i copied and pasted.
9WD	6/17/19	1155	G	Water	N	N															
8BCWD	6/17/19	1215	G	Water	Y	N															

D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; P- Na2O4S; Q - Na2 SO3; R- Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by: Agustin Loureiro	Date/Time: 6/17/19 1800	Company KAS	Received by: Unknow Liko lb	Date/Time: 06/18/19 0900	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3 #1 ICE

7/19/2019 (Rev. 1)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8 B C W D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: /

Sampling Device: D

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
06/17/19	6.29	809	22.3	31.6	2.0	124	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: brown Odor: strong Color: brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N/A Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
06/17/19	Agustin Loureiro		
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-155237-1

Login Number: 155237
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	Coc provided by client at a later date 6/20
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-157195-1
Client Project/Site: Crossroads ME-SA GW
Sampling Event: Semi-Annual Groundwater (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
9/30/2019 5:11:01 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-157195-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-157195-1

Comments
No additional comments.

Receipt
The samples were received on 8/6/2019 9:00 AM, 8/7/2019 9:00 AM, 8/8/2019 9:00 AM, 8/9/2019 9:00 AM, 8/10/2019 9:15 AM, 8/20/2019 2:30 PM, 8/21/2019 9:40 AM, 8/22/2019 9:30 AM, 8/28/2019 9:15 AM, 8/29/2019 9:15 AM and 8/31/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 15 coolers at receipt time were 2.0º C, 2.1º C, 2.3º C, 2.4º C, 2.5º C, 2.8º C, 2.9º C, 3.0º C, 3.0º C, 3.1º C, 3.1º C, 3.2º C, 3.3º C, 3.4º C and 3.4º C.

Metals
Method(s) 6010C: The results reported for Total Barium, Calcium, Iron, Magnesium, Manganese, and Sodium for the following sample do not concur with results previously reported for this site: 107BR (480-157453-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The results reported for Total Iron for the following sample do not concur with results previously reported for this site: 104C (480-157327-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Manganese result reported for the following sample did not concur with results previously reported for this site: 629B (480-157389-6). Reanalysis was performed, and the result confirmed.

Method(s) 6010C: The Total Chromium result reported for the following sample did not concur with results previously reported for this site: 629E (480-157389-7). Reanalysis was performed, and the result confirmed.

Method(s) 6010C: The Total Arsenic, Barium, Magnesium, and Manganese results reported for the following sample do not concur with results previously reported for this site: 617A (480-157949-3). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Total Arsenic result reported for the following sample did not concur with results previously reported for this site: 310D (480-157992-2). Reanalysis was performed, and the result confirmed.

Method(s) 6010C: The Total Barium, Iron, Magnesium, Manganese, and Sodium results reported for the following sample do not concur with results previously reported for this site: 617C (480-157949-4). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Total Manganese results reported for the following sample do not concur with results previously reported for this site: 618AR (480-158239-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Arsenic and Magnesium results reported for the following sample do not concur with results previously reported for this site: 620A (480-158419-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6010C: The Total Arsenic, Barium, Calcium, Iron, Magnesium, and Potassium results reported for the following sample do not concur with results previously reported for this site: 618CR (480-158419-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) 6020A: The continuing calibration verification (CCV) associated with batch 680-586051 recovered above the upper control limit for Aluminum. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020A: The interference check standard solution (ICSA) associated with the following samples showed results for cobalt at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (680-173837-C-2-A), (680-173837-C-2-B MS), (680-173837-C-2-C MSD), (680-173837-C-2-A PDS) and (680-173837-C-2-A SD ^5)

Method(s) 6020A: The results reported for the following sample do not concur with results previously reported for this site: 628A (480-157389-5). Reanalysis of the undigested sample was performed, and the result(s) confirmed.

Method(s) 6020A: The results reported for the following sample do not concur with results previously reported for this site: 106WR

Job ID: 480-157195-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

(480-157389-3). Reanalysis of the undigested sample was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 350.1: The results reported for the following sample do not concur with results previously reported for this site: W11-3E (480-157195-3) and DUP-GW-01 (480-157327-6). Reanalysis was performed, and the result(s) confirmed.

Method(s) 353.2: The results reported for the following sample do not concur with results previously reported for this site: W11-6E (480-157195-6) and 626B (480-158314-3). Reanalysis was performed, and the result(s) confirmed.

Method(s) 9038: The results reported for the following samples do not concur with results previously reported for this site: W12-4E (480-157259-4), 629B (480-157389-6), DUP-GW-02 (480-157389-8) and TRANS (480-157453-3). Reanalysis was performed, and the results confirmed.

Method(s) 9251: The results reported for the following sample do not concur with results previously reported for this site: 107BR (480-157453-1) and 629B (480-157389-6). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540D: Reanalysis of the following samples were performed outside of the analytical holding time to confirm the original analysis : 106DR (480-157389-2), 629B (480-157389-6), 629E (480-157389-7), 107BR (480-157453-1) and 107CR (480-157453-2). Results do not confirm, both sets of data have been reported.

Method(s) SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time to confirm the original result : W11-4E (480-157195-4), W11-5B (480-157195-7), 310D (480-157992-2) and 1134B (480-158239-2). Results do not confirm, both sets of data have been reported.

Method(s) SM 5310C: The results reported for the following sample do not concur with results previously reported for this site: 107BR (480-157453-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540C: The Total Dissolved Solids results reported for the following sample do not concur with results previously reported for this site: 107BR (480-157453-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540D: The Total Suspended Solids results reported for the following sample do not concur with results previously reported for this site: 1008ER2 (480-157906-2). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540C: The Total Dissolved Solids results reported for the following sample does not concur with results previously reported for this site: 628A (480-157389-5). Reanalysis was performed, and the result confirmed.

Method(s) SM 2540C: The following samples were analyzed outside of analytical holding time due to laboratory error: 104C (480-157327-2), 104D (480-157327-3), 630B (480-157327-4), 630E (480-157327-5) and DUP-GW-01 (480-157327-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W11-1B — Lab Sample ID: 480-157195-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.028		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.9		0.24		mg/L	1		6010C	Total/NA
Manganese	0.014		0.010		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	8.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	86		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.046		0.020		mg/L as N	1		350.1	Total/NA
Chloride	0.77		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.7				%	1		SM 1030E	Total/NA
Calculated TDS	82				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.73				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	60		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
Field pH	8.67				SU	1		Field Sampling	Total/NA
Specific Conductance	158				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.63				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-40.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	22.91				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-1ER — Lab Sample ID: 480-157195-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0097		0.0050		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.041		0.030		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Manganese	0.093		0.010		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Chloride	3.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.1				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	26.2				NTU	1		Field Sampling	Total/NA
Temperature	29.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Specific Conductance	264				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-148.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.69				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W11-3E — Lab Sample ID: 480-157195-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	0.016		0.010		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.053		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.19		0.050		mg/L as N	1		353.2	Total/NA
Chloride	3.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.083				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.52				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.2				NTU	1		Field Sampling	Total/NA
Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.49				SU	1		Field Sampling	Total/NA
Specific Conductance	288				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	254.66				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-146.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.27				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-4E — Lab Sample ID: 480-157195-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	43		0.15		mg/L	1		6010C	Total/NA
Magnesium	35		0.24		mg/L	1		6010C	Total/NA
Potassium	3.3		0.20		mg/L	1		6010C	Total/NA
Sodium	17		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	290		40		mg/L	4		310.2	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA
Chloride	4.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.1				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.94				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	380		5.0		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	260		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	4.8				NTU	1		Field Sampling	Total/NA
Temperature	31.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Specific Conductance	563				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	177.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.88				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5E — Lab Sample ID: 480-157195-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.010		0.0090		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: W11-5E (Continued)

Lab Sample ID: 480-157195-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	7.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.047		0.010		mg/L	1		6010C	Total/NA
Potassium	1.0		0.20		mg/L	1		6010C	Total/NA
Sodium	6.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	78		10		mg/L	1		310.2	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.1				%	1		SM 1030E	Total/NA
Calculated TDS	79				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	22.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.42				SU	1		Field Sampling	Total/NA
Specific Conductance	171				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	38.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	15.57				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-6E

Lab Sample ID: 480-157195-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	0.010		0.010		mg/L	1		6010C	Total/NA
Potassium	1.2		0.20		mg/L	1		6010C	Total/NA
Sodium	7.4		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Nitrate	1.4		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.3				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.52				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.6				NTU	1		Field Sampling	Total/NA
Temperature	26.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.42				SU	1		Field Sampling	Total/NA
Specific Conductance	270				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	228.58				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-83.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	16.55				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5B

Lab Sample ID: 480-157195-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.019		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-5B (Continued)

Lab Sample ID: 480-157195-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	0.015		0.010		mg/L	1		6010C	Total/NA
Potassium	2.8		0.20		mg/L	1		6010C	Total/NA
Sodium	9.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	69		10		mg/L	1		310.2	Total/NA
Sulfate	5.5		5.0		mg/L	1		9038	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.1				%	1		SM 1030E	Total/NA
Calculated TDS	74				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.92				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	470		5.0		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	68		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	15.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.54				SU	1		Field Sampling	Total/NA
Specific Conductance	146				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.61				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	3.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	28.58				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-2E

Lab Sample ID: 480-157259-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	0.96		0.15		mg/L	1		6010C	Total/NA
Magnesium	0.52		0.24		mg/L	1		6010C	Total/NA
Potassium	0.39		0.20		mg/L	1		6010C	Total/NA
Sodium	1.3		0.40		mg/L	1		6010C	Total/NA
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	60				%	1		SM 1030E	Total/NA
Calculated TDS	4.6				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.00				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.00				NONE	1		SM 1030E	Total/NA
Turbidity	2.0				NTU	1		Field Sampling	Total/NA
Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.73				SU	1		Field Sampling	Total/NA
Specific Conductance	31				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	260.89				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	59.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.02				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-3E

Lab Sample ID: 480-157259-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0050		0.0050		mg/L	1		6010C	Total/NA
Calcium	39		0.15		mg/L	1		6010C	Total/NA
Magnesium	16		0.24		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA
Sodium	5.9		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	180		30		mg/L	3		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-3E (Continued) — Lab Sample ID: 480-157259-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Nitrate	0.14		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.3				%	1		SM 1030E	Total/NA
Calculated TDS	170				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.87				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.39				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.7				NTU	1		Field Sampling	Total/NA
Temperature	26.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.68				SU	1		Field Sampling	Total/NA
Specific Conductance	386				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	240.47				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	62.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	5.95				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-4B — Lab Sample ID: 480-157259-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.022		0.0090		mg/L	1		6010C	Total/NA
Calcium	17		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.010		0.010		mg/L	1		6010C	Total/NA
Potassium	3.5		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	79		10		mg/L	1		310.2	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.7				%	1		SM 1030E	Total/NA
Calculated TDS	84				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.72				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.36				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	60		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.3				NTU	1		Field Sampling	Total/NA
Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.15				SU	1		Field Sampling	Total/NA
Specific Conductance	165				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	232.58				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	25.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.18				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-4E — Lab Sample ID: 480-157259-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085		0.0050		mg/L	1		6010C	Total/NA
Calcium	9.8		0.15		mg/L	1		6010C	Total/NA
Magnesium	9.3		0.24		mg/L	1		6010C	Total/NA
Potassium	0.69		0.20		mg/L	1		6010C	Total/NA
Sodium	9.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	95		10		mg/L	1		310.2	Total/NA
Nitrate	0.39		0.050		mg/L as N	1		353.2	Total/NA
Chloride	0.96		0.50		mg/L	1		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-4E (Continued) — Lab Sample ID: 480-157259-4

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	-7.8				%	1		SM 1030E	Total/NA
Calculated TDS	87				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	93		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	3.2				NTU	1		Field Sampling	Total/NA
Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.55				SU	1		Field Sampling	Total/NA
Specific Conductance	203				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	243.34				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	62.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.65				ft	1		Field Sampling	Total/NA

Client Sample ID: 101C — Lab Sample ID: 480-157327-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0090		mg/L	1		6010C	Total/NA
Calcium	16		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.0		0.24		mg/L	1		6010C	Total/NA
Potassium	3.1		0.20		mg/L	1		6010C	Total/NA
Sodium	8.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	61		10		mg/L	1		310.2	Total/NA
Sulfate	19		5.0		mg/L	1		9038	Total/NA
Chloride	1.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.9				%	1		SM 1030E	Total/NA
Calculated TDS	68				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.8				NTU	1		Field Sampling	Total/NA
Temperature	12.6				Degrees C	1		Field Sampling	Total/NA
Field pH	8.10				SU	1		Field Sampling	Total/NA
Specific Conductance	157				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	248.79				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-257.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	23.46				ft	1		Field Sampling	Total/NA

Client Sample ID: 104C — Lab Sample ID: 480-157327-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0090		mg/L	1		6010C	Total/NA
Calcium	21		0.15		mg/L	1		6010C	Total/NA
Iron	0.035		0.030		mg/L	1		6010C	Total/NA
Magnesium	4.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.21		0.010		mg/L	1		6010C	Total/NA
Potassium	2.5		0.20		mg/L	1		6010C	Total/NA
Sodium	7.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	80		10		mg/L	1		310.2	Total/NA
Nitrate	0.053		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	10		5.0		mg/L	1		9038	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 104C (Continued) — Lab Sample ID: 480-157327-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.7				%	1		SM 1030E	Total/NA
Calculated TDS	85				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.45				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	97		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.8				NTU	1		Field Sampling	Total/NA
Temperature	19.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.53				SU	1		Field Sampling	Total/NA
Specific Conductance	217				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	247.37				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-198.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.13				ft	1		Field Sampling	Total/NA

Client Sample ID: 104D — Lab Sample ID: 480-157327-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	4.0		0.15		mg/L	1		6010C	Total/NA
Magnesium	0.52		0.24		mg/L	1		6010C	Total/NA
Manganese	0.012		0.010		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	36		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	80		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.092		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.062		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	0.99		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.7				%	1		SM 1030E	Total/NA
Calculated TDS	91				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.99				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	90		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.5				NTU	1		Field Sampling	Total/NA
Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	191				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	247.49				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-189.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.98				ft	1		Field Sampling	Total/NA

Client Sample ID: 630B — Lab Sample ID: 480-157327-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0090		mg/L	1		6010C	Total/NA
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.096		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.014		0.010		mg/L	1		6010C	Total/NA
Potassium	2.3		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 630B (Continued) — Lab Sample ID: 480-157327-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	8.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	68		10		mg/L	1		310.2	Total/NA
Sulfate	15		5.0		mg/L	1		9038	Total/NA
Chloride	2.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.1				%	1		SM 1030E	Total/NA
Calculated TDS	75				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.62				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	4.4				NTU	1		Field Sampling	Total/NA
Temperature	13.0				Degrees C	1		Field Sampling	Total/NA
Field pH	8.47				SU	1		Field Sampling	Total/NA
Specific Conductance	161				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.04				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-32.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.81				ft	1		Field Sampling	Total/NA

Client Sample ID: 630E — Lab Sample ID: 480-157327-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	9.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.96		0.010		mg/L	1		6010C	Total/NA
Potassium	0.53		0.20		mg/L	1		6010C	Total/NA
Sodium	5.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	2.3		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	1.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.5				%	1		SM 1030E	Total/NA
Calculated TDS	71				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.55				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.7		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.3				NTU	1		Field Sampling	Total/NA
Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.54				SU	1		Field Sampling	Total/NA
Specific Conductance	183				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	259.30				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	52.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.27				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-01 — Lab Sample ID: 480-157327-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	4.0		0.15		mg/L	1		6010C	Total/NA
Magnesium	0.53		0.24		mg/L	1		6010C	Total/NA
Manganese	0.012		0.010		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-01 (Continued)

Lab Sample ID: 480-157327-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	36		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	80		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.11		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.099		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.2				%	1		SM 1030E	Total/NA
Calculated TDS	91				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.52				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.5				NTU	1		Field Sampling	Total/NA
Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	191				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-189.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W11-2E

Lab Sample ID: 480-157327-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Iron	0.038		0.030		mg/L	1		6010C	Total/NA
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	9.4		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	94		20		mg/L	2		310.2	Total/NA
Chloride	13		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.6				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	4.0				NTU	1		Field Sampling	Total/NA
Temperature	25.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.82				SU	1		Field Sampling	Total/NA
Specific Conductance	233				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.12				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-172.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.51				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-1B

Lab Sample ID: 480-157327-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0090		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0050		0.0050		mg/L	1		6010C	Total/NA
Calcium	26		0.15		mg/L	1		6010C	Total/NA
Magnesium	4.9		0.24		mg/L	1		6010C	Total/NA
Manganese	0.045		0.010		mg/L	1		6010C	Total/NA
Potassium	3.7		0.20		mg/L	1		6010C	Total/NA
Sodium	2.9		0.40		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-1B (Continued)

Lab Sample ID: 480-157327-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	97		20		mg/L	2		310.2	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.6				%	1		SM 1030E	Total/NA
Calculated TDS	97				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.53				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.2				NTU	1		Field Sampling	Total/NA
Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
Field pH	7.66				SU	1		Field Sampling	Total/NA
Specific Conductance	209				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.28				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-18.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.79				ft	1		Field Sampling	Total/NA

Client Sample ID: 106CR

Lab Sample ID: 480-157389-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.013		0.0050		mg/L	1		6010C	Total/NA
Calcium	59		0.15		mg/L	1		6010C	Total/NA
Iron	0.23		0.030		mg/L	1		6010C	Total/NA
Magnesium	8.7		0.24		mg/L	1		6010C	Total/NA
Manganese	0.13		0.010		mg/L	1		6010C	Total/NA
Potassium	6.4		0.20		mg/L	1		6010C	Total/NA
Sodium	7.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	190		30		mg/L	3		310.2	Total/NA
Sulfate	25		5.0		mg/L	1		9038	Total/NA
Chloride	7.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.0				%	1		SM 1030E	Total/NA
Calculated TDS	200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	220		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	4.0				NTU	1		Field Sampling	Total/NA
Temperature	11.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Specific Conductance	411				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.32				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-160.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.95				ft	1		Field Sampling	Total/NA

Client Sample ID: 106DR

Lab Sample ID: 480-157389-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0050		mg/L	1		6010C	Total/NA
Calcium	96		0.15		mg/L	1		6010C	Total/NA
Magnesium	11		0.24		mg/L	1		6010C	Total/NA
Potassium	6.5		0.20		mg/L	1		6010C	Total/NA
Sodium	3.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	290		40		mg/L	4		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 106DR (Continued)

Lab Sample ID: 480-157389-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sulfate	27		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.3				%	1		SM 1030E	Total/NA
Calculated TDS	290				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.67				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	370		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	13		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	4.1				NTU	1		Field Sampling	Total/NA
Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.14				SU	1		Field Sampling	Total/NA
Specific Conductance	551				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.15				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-123.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	22.00				ft	1		Field Sampling	Total/NA

Client Sample ID: 106WR

Lab Sample ID: 480-157389-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0073		0.0050		mg/L	1		6010C	Total/NA
Calcium	59		0.15		mg/L	1		6010C	Total/NA
Iron	0.57		0.030		mg/L	1		6010C	Total/NA
Magnesium	8.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.016		0.010		mg/L	1		6010C	Total/NA
Potassium	3.0		0.20		mg/L	1		6010C	Total/NA
Sodium	2.8		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.37		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	170		20		mg/L	2		310.2	Total/NA
Nitrate	0.41		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	5.8		5.0		mg/L	1		9038	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	3.7				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.57				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	210		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	16		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	10.6				NTU	1		Field Sampling	Total/NA
Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field pH	6.43				SU	1		Field Sampling	Total/NA
Specific Conductance	370				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.29				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-19.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.51				ft	1		Field Sampling	Total/NA

Client Sample ID: 627A

Lab Sample ID: 480-157389-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	8.9		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 627A (Continued) — Lab Sample ID: 480-157389-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	1.9		0.24		mg/L	1		6010C	Total/NA
Potassium	2.3		0.20		mg/L	1		6010C	Total/NA
Sodium	14		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	54		10		mg/L	1		310.2	Total/NA
Nitrate	0.058		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	11		5.0		mg/L	1		9038	Total/NA
Chloride	6.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-8.1				%	1		SM 1030E	Total/NA
Calculated TDS	66				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.51				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	75		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	18.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.92				SU	1		Field Sampling	Total/NA
Specific Conductance	148				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	238.21				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	19.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	3.78				ft	1		Field Sampling	Total/NA

Client Sample ID: 628A — Lab Sample ID: 480-157389-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	13		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.5		0.24		mg/L	1		6010C	Total/NA
Potassium	2.6		0.20		mg/L	1		6010C	Total/NA
Sodium	13		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	69		10		mg/L	1		310.2	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-7.0				%	1		SM 1030E	Total/NA
Calculated TDS	75				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.8				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	210		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	18.2				Degrees C	1		Field Sampling	Total/NA
Field pH	8.01				SU	1		Field Sampling	Total/NA
Specific Conductance	167				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	237.91				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	9.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.28				ft	1		Field Sampling	Total/NA

Client Sample ID: 629B — Lab Sample ID: 480-157389-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.014		0.0090		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.4		0.24		mg/L	1		6010C	Total/NA
Potassium	2.0		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 629B (Continued) — Lab Sample ID: 480-157389-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	5.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	93		10		mg/L	1		310.2	Total/NA
Sulfate	28		5.0		mg/L	1		9038	Total/NA
Chloride	8.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-28				%	1		SM 1030E	Total/NA
Calculated TDS	95				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.75				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.44				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	71		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	15		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	7.5				NTU	1		Field Sampling	Total/NA
Temperature	16.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.80				SU	1		Field Sampling	Total/NA
Specific Conductance	162				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.91				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	4.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	18.23				ft	1		Field Sampling	Total/NA

Client Sample ID: 629E — Lab Sample ID: 480-157389-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085		0.0050		mg/L	1		6010C	Total/NA
Calcium	12		0.15		mg/L	1		6010C	Total/NA
Iron	0.082		0.030		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Potassium	1.0		0.20		mg/L	1		6010C	Total/NA
Sodium	9.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Nitrate	0.87		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.45				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.0		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	5.6				NTU	1		Field Sampling	Total/NA
Temperature	21.6				Degrees C	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Specific Conductance	248				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.50				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	32.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	16.18				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-02 — Lab Sample ID: 480-157389-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.010		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.7		0.24		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-02 (Continued)

Lab Sample ID: 480-157389-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Potassium	1.6		0.20		mg/L	1		6010C	Total/NA
Sodium	4.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	68		10		mg/L	1		310.2	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA
Chloride	2.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-17				%	1		SM 1030E	Total/NA
Calculated TDS	67				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.46				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	74		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	7.5				NTU	1		Field Sampling	Total/NA
Temperature	16.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.80				SU	1		Field Sampling	Total/NA
Specific Conductance	162				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	4.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 107BR

Lab Sample ID: 480-157453-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.051		0.0050		mg/L	1		6010C	Total/NA
Calcium	160		0.15		mg/L	1		6010C	Total/NA
Iron	4.7		0.030		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	2.3		0.010		mg/L	1		6010C	Total/NA
Potassium	7.4		0.20		mg/L	1		6010C	Total/NA
Sodium	5.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	340		40		mg/L	4		310.2	Total/NA
Chemical Oxygen Demand	17		10		mg/L	1		410.4	Total/NA
Chloride	78		1.0		mg/L	2		9251	Total/NA
Anion/Cation Balance	4.0				%	1		SM 1030E	Total/NA
Calculated TDS	470				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.62				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	550		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	10		4.0		mg/L	1		SM 2540D	Total/NA
Total Suspended Solids	6.4		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.8		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	6.1				NTU	1		Field Sampling	Total/NA
Temperature	15.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.59				SU	1		Field Sampling	Total/NA
Specific Conductance	886				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.65				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-130.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.48				ft	1		Field Sampling	Total/NA

Client Sample ID: 107CR

Lab Sample ID: 480-157453-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 107CR (Continued) — Lab Sample ID: 480-157453-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Potassium	4.4		0.20		mg/L	1		6010C	Total/NA
Sodium	56		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	200		30		mg/L	3		310.2	Total/NA
Sulfate	8.6		5.0		mg/L	1		9038	Total/NA
Chloride	2.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.5				%	1		SM 1030E	Total/NA
Calculated TDS	210				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.58				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	230		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	21		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	5.7				NTU	1		Field Sampling	Total/NA
Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.74				SU	1		Field Sampling	Total/NA
Specific Conductance	398				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.37				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-82.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.34				ft	1		Field Sampling	Total/NA

Client Sample ID: TRANS — Lab Sample ID: 480-157453-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	11		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.9		0.24		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	14		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	57		10		mg/L	1		310.2	Total/NA
Nitrate	0.11		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	5.8				%	1		SM 1030E	Total/NA
Calculated TDS	65				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.85				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.41				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	55		5.0		mg/L	1		SM 2540C	Total/NA
Total Coliform	2		1		CFU/100mL	1		SM 9223B	Total/NA
Turbidity	4.5				NTU	1		Field Sampling	Total/NA
Temperature	10.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.65				SU	1		Field Sampling	Total/NA
Specific Conductance	135				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-179.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.4				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 1008BR2 — Lab Sample ID: 480-157906-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.2		0.24		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	3.4		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	51		10		mg/L	1		310.2	Total/NA
Nitrate	0.20		0.050		mg/L as N	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1008BR2 (Continued)

Lab Sample ID: 480-157906-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sulfate	6.0		5.0		mg/L	1		9038	Total/NA
Chloride	2.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.1				%	1		SM 1030E	Total/NA
Calculated TDS	58				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	74		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	14.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.44				SU	1		Field Sampling	Total/NA
Specific Conductance	136				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	239.15				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-154.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.96				ft	1		Field Sampling	Total/NA

Client Sample ID: 1008ER2

Lab Sample ID: 480-157906-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	52		0.15		mg/L	1		6010C	Total/NA
Iron	0.14		0.030		mg/L	1		6010C	Total/NA
Magnesium	37		0.24		mg/L	1		6010C	Total/NA
Manganese	1.6		0.010		mg/L	1		6010C	Total/NA
Potassium	0.68		0.20		mg/L	1		6010C	Total/NA
Sodium	8.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	290		40		mg/L	4		310.2	Total/NA
Chloride	2.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.7				%	1		SM 1030E	Total/NA
Calculated TDS	280				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	290		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.0		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	21.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Specific Conductance	541				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	260.75				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-7.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.55				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-5E

Lab Sample ID: 480-157906-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0090		0.0050		mg/L	1		6010C	Total/NA
Calcium	55		0.15		mg/L	1		6010C	Total/NA
Magnesium	6.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.065		0.010		mg/L	1		6010C	Total/NA
Potassium	4.8		0.20		mg/L	1		6010C	Total/NA
Sodium	1.3		0.40		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-5E (Continued)

Lab Sample ID: 480-157906-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	170		20		mg/L	2		310.2	Total/NA
Nitrate	0.68		0.050		mg/L as N	1		353.2	Total/NA
Chloride	0.62		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.15				%	1		SM 1030E	Total/NA
Calculated TDS	170				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.94				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	13.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.80				SU	1		Field Sampling	Total/NA
Specific Conductance	330				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.84				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-7.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	11.27				ft	1		Field Sampling	Total/NA

Client Sample ID: 1041B

Lab Sample ID: 480-157949-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.042		0.0050		mg/L	1		6010C	Total/NA
Calcium	52		0.15		mg/L	1		6010C	Total/NA
Magnesium	17		0.24		mg/L	1		6010C	Total/NA
Manganese	3.9		0.010		mg/L	1		6010C	Total/NA
Potassium	22		0.20		mg/L	1		6010C	Total/NA
Sodium	9.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	200		30		mg/L	3		310.2	Total/NA
Sulfate	60		10		mg/L	2		9038	Total/NA
Chloride	6.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.1				%	1		SM 1030E	Total/NA
Calculated TDS	230				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.77				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	360		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.7				NTU	1		Field Sampling	Total/NA
Temperature	20.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.10				SU	1		Field Sampling	Total/NA
Specific Conductance	470				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	216.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 310AW

Lab Sample ID: 480-157949-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.3		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	3.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	66		10		mg/L	1		310.2	Total/NA
Nitrate	0.24		0.050		mg/L as N	1		353.2	Total/NA
Chloride	4.2		0.50		mg/L	1		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310AW (Continued) — Lab Sample ID: 480-157949-2

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	1.6				%	1		SM 1030E	Total/NA
Calculated TDS	74				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.9				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.79				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	21.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.75				SU	1		Field Sampling	Total/NA
Specific Conductance	177				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	269.69				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	6.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	5.69				ft	1		Field Sampling	Total/NA

Client Sample ID: 617A — Lab Sample ID: 480-157949-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.017		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.21		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.3		0.24		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	36		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.36		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	100		20		mg/L	2		310.2	Total/NA
Sulfate	29		5.0		mg/L	1		9038	Total/NA
Chloride	3.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.7				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.42				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	22.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA
Specific Conductance	313				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	262.25				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	214.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	6.41				ft	1		Field Sampling	Total/NA

Client Sample ID: 617C — Lab Sample ID: 480-157949-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.38		0.030		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	0.057		0.010		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	26		0.40		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 617C (Continued) — Lab Sample ID: 480-157949-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Sulfate	24		5.0		mg/L	1		9038	Total/NA
Chloride	2.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.4				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.64				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.9				NTU	1		Field Sampling	Total/NA
Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Specific Conductance	265				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	255.98				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	18.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.06				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-03 — Lab Sample ID: 480-157949-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.016		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Iron	0.18		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	36		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.39		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	100		20		mg/L	2		310.2	Total/NA
Sulfate	10		5.0		mg/L	1		9038	Total/NA
Chloride	3.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	6.1				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.57				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.8		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	2.9				NTU	1		Field Sampling	Total/NA
Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Specific Conductance	265				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	18.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 310C — Lab Sample ID: 480-157992-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Iron	0.10		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.3		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310C (Continued) — Lab Sample ID: 480-157992-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sodium	3.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	0.24		0.050		mg/L as N	1		353.2	Total/NA
Chloride	4.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	4.4				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.68				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA
Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.32				SU	1		Field Sampling	Total/NA
Specific Conductance	161				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	269.02				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	159.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.34				ft	1		Field Sampling	Total/NA

Client Sample ID: 310D — Lab Sample ID: 480-157992-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0091		0.0090		mg/L	1		6010C	Total/NA
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Iron	0.067		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.1		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	8.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	64		10		mg/L	1		310.2	Total/NA
Nitrate	0.15		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	8.1		5.0		mg/L	1		9038	Total/NA
Chloride	2.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.62				%	1		SM 1030E	Total/NA
Calculated TDS	73				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.95				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.40				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	69		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	18.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.65				SU	1		Field Sampling	Total/NA
Specific Conductance	172				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	272.10				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	114.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.60				ft	1		Field Sampling	Total/NA

Client Sample ID: 620C — Lab Sample ID: 480-157992-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.024		0.0090		mg/L	1		6010C	Total/NA
Barium	0.14		0.0050		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 620C (Continued) — Lab Sample ID: 480-157992-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	5.3		0.24		mg/L	1		6010C	Total/NA
Potassium	2.9		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	94		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.037		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	10		5.0		mg/L	1		9038	Total/NA
Chloride	0.94		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.1				%	1		SM 1030E	Total/NA
Calculated TDS	97				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.68				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	14.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.9				SU	1		Field Sampling	Total/NA
Specific Conductance	191				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.97				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	8.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.77				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-04 — Lab Sample ID: 480-157992-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.045		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.0		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	7.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	65		10		mg/L	1		310.2	Total/NA
Nitrate	0.14		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	8.1		5.0		mg/L	1		9038	Total/NA
Chloride	3.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.0				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.64				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	18.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.65				SU	1		Field Sampling	Total/NA
Specific Conductance	172				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	114.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.1				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W9-1E — Lab Sample ID: 480-157992-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.054		0.030		mg/L	1		6010C	Total/NA
Magnesium	13		0.24		mg/L	1		6010C	Total/NA
Manganese	0.047		0.010		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W9-1E (Continued) — Lab Sample ID: 480-157992-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	15		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Chloride	2.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	4.0				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.49				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	21.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA
Specific Conductance	268				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.92				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	149.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	3.38				ft	1		Field Sampling	Total/NA

Client Sample ID: W9-2E — Lab Sample ID: 480-157992-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Magnesium	14		0.24		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Chloride	2.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.3				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.85				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.44				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Specific Conductance	226				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	254.64				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	71.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	6.38				ft	1		Field Sampling	Total/NA

Client Sample ID: 618AR — Lab Sample ID: 480-158239-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	41		0.15		mg/L	1		6010C	Total/NA
Magnesium	45		0.24		mg/L	1		6010C	Total/NA
Manganese	0.41		0.010		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	20		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	330		40		mg/L	4		310.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	5.6		0.50		mg/L	1		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 618AR (Continued) — Lab Sample ID: 480-158239-1

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	-2.3				%	1		SM 1030E	Total/NA
Calculated TDS	310				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.51				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	330		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.8		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	22.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.44				SU	1		Field Sampling	Total/NA
Specific Conductance	646				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.56				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	38.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	10.65				ft	1		Field Sampling	Total/NA

Client Sample ID: 1134B — Lab Sample ID: 480-158239-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0090		mg/L	1		6010C	Total/NA
Calcium	4.8		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.0		0.24		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	46		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Sulfate	11		5.0		mg/L	1		9038	Total/NA
Chloride	0.80		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.1				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.57				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	28		5.0		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.12				SU	1		Field Sampling	Total/NA
Specific Conductance	230				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.90				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	1.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	23.99				ft	1		Field Sampling	Total/NA

Client Sample ID: 1040B — Lab Sample ID: 480-158314-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0084		0.0050		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Magnesium	6.4		0.24		mg/L	1		6010C	Total/NA
Manganese	0.097		0.010		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	4.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	80		10		mg/L	1		310.2	Total/NA
Nitrate	0.12		0.050		mg/L as N	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1040B (Continued) — Lab Sample ID: 480-158314-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sulfate	15		5.0		mg/L	1		9038	Total/NA
Chloride	1.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.9				%	1		SM 1030E	Total/NA
Calculated TDS	83				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.64				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	93		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.0				NTU	1		Field Sampling	Total/NA
Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.29				SU	1		Field Sampling	Total/NA
Specific Conductance	145				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	241.22				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-11.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	11.89				ft	1		Field Sampling	Total/NA

Client Sample ID: 624B — Lab Sample ID: 480-158314-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.026		0.0050		mg/L	1		6010C	Total/NA
Calcium	120		0.15		mg/L	1		6010C	Total/NA
Magnesium	19		0.24		mg/L	1		6010C	Total/NA
Manganese	1.2		0.010		mg/L	1		6010C	Total/NA
Potassium	6.2		0.20		mg/L	1		6010C	Total/NA
Sodium	3.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	360		40		mg/L	4		310.2	Total/NA
Sulfate	35		5.0		mg/L	1		9038	Total/NA
Chloride	2.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.3				%	1		SM 1030E	Total/NA
Calculated TDS	360				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.96				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.63				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	350		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	5.2				NTU	1		Field Sampling	Total/NA
Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.63				SU	1		Field Sampling	Total/NA
Specific Conductance	553				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	240.51				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-42.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.03				ft	1		Field Sampling	Total/NA

Client Sample ID: 626B — Lab Sample ID: 480-158314-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	9.6		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.7		0.24		mg/L	1		6010C	Total/NA
Potassium	2.0		0.20		mg/L	1		6010C	Total/NA
Sodium	1.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	37		10		mg/L	1		310.2	Total/NA
Nitrate	0.12		0.050		mg/L as N	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 626B (Continued)

Lab Sample ID: 480-158314-3

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	-0.85				%	1		SM 1030E	Total/NA
Calculated TDS	37				mg/L	1		SM 1030E	Total/NA
TDS Ratio	3.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	2.0				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.6				NTU	1		Field Sampling	Total/NA
Temperature	19.8				Degrees C	1		Field Sampling	Total/NA
Field pH	5.98				SU	1		Field Sampling	Total/NA
Specific Conductance	65				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	243.74				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	41.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.24				ft	1		Field Sampling	Total/NA

Client Sample ID: 620A

Lab Sample ID: 480-158419-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.016		0.0090		mg/L	1		6010C	Total/NA
Barium	0.023		0.0050		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.7		0.24		mg/L	1		6010C	Total/NA
Manganese	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Nitrate	0.081		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	21		5.0		mg/L	1		9038	Total/NA
Chloride	3.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-31				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.53				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	20.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.70				SU	1		Field Sampling	Total/NA
Specific Conductance	320				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.59				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-40.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.00				ft	1		Field Sampling	Total/NA

Client Sample ID: 618CR

Lab Sample ID: 480-158419-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.019		0.0050		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.23		0.030		mg/L	1		6010C	Total/NA
Magnesium	19		0.24		mg/L	1		6010C	Total/NA
Manganese	0.025		0.010		mg/L	1		6010C	Total/NA
Potassium	1.0		0.20		mg/L	1		6010C	Total/NA
Sodium	14		0.40		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 618CR (Continued)

Lab Sample ID: 480-158419-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	61		10		mg/L	1		310.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	34				%	1		SM 1030E	Total/NA
Calculated TDS	90				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.61				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	90		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	4.8				NTU	1		Field Sampling	Total/NA
Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field pH	8.11				SU	1		Field Sampling	Total/NA
Specific Conductance	148				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.95				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-51.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	16.17				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-1B

Date Collected: 08/05/19 16:03
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**		0.0090		mg/L		08/07/19 07:45	08/07/19 19:42	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 19:42	1
Calcium	**14**		0.15		mg/L		08/07/19 07:45	08/07/19 19:42	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 19:42	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:42	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 19:42	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 19:42	1
Magnesium	**5.9**		0.24		mg/L		08/07/19 07:45	08/07/19 19:42	1
Manganese	**0.014**		0.010		mg/L		08/07/19 07:45	08/07/19 19:42	1
Potassium	**1.8**		0.20		mg/L		08/07/19 07:45	08/07/19 19:42	1
Sodium	**8.1**		0.40		mg/L		08/07/19 07:45	08/07/19 19:42	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:42	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 19:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:34	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.7**				%			09/17/19 22:47	1
Calculated TDS	**82**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.73**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.38**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**86**		10		mg/L			08/07/19 19:38	1
Ammonia as N	**0.046**		0.020		mg/L as N			08/06/19 13:42	1
Nitrate	ND	U	0.050		mg/L as N			08/06/19 15:37	1
Sulfate	ND	U	5.0		mg/L			08/11/19 12:00	1
Chloride	**0.77**		0.50		mg/L			08/07/19 19:43	1
Total Dissolved Solids	**60**		5.0		mg/L			08/08/19 09:05	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 00:56	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/05/19 16:03	1
Temperature	**9.7**				Degrees C			08/05/19 16:03	1
Field pH	**8.67**				SU			08/05/19 16:03	1
Specific Conductance	**158**				umhos/cm			08/05/19 16:03	1
Ground Water Elevation	**249.63**				ft/msl			08/05/19 16:03	1
Field EH/ORP	**-40.2**				millivolts			08/05/19 16:03	1
Oxygen, Dissolved	**1.7**				mg/L			08/05/19 16:03	1
Depth to Water from Top of Casing	**22.91**				ft			08/05/19 16:03	1

Client Sample ID: W11-1ER

Date Collected: 08/05/19 14:39
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/07/19 07:45	08/07/19 19:46	1
Barium	**0.0097**		0.0050		mg/L		08/07/19 07:45	08/07/19 19:46	1
Calcium	**14**		0.15		mg/L		08/07/19 07:45	08/07/19 19:46	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 19:46	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:46	1
Iron	**0.041**		0.030		mg/L		08/07/19 07:45	08/07/19 19:46	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 19:46	1
Magnesium	**17**		0.24		mg/L		08/07/19 07:45	08/07/19 19:46	1
Manganese	**0.093**		0.010		mg/L		08/07/19 07:45	08/07/19 19:46	1
Potassium	**1.4**		0.20		mg/L		08/07/19 07:45	08/07/19 19:46	1
Sodium	**10**		0.40		mg/L		08/07/19 07:45	08/07/19 19:46	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:46	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 19:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 01:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.1**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.97**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.46**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			08/07/19 19:50	2
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:43	1
Nitrate	ND	U	0.050		mg/L as N			08/06/19 15:38	1
Sulfate	ND	U	5.0		mg/L			08/11/19 15:30	1
Chloride	**3.1**		0.50		mg/L			08/07/19 19:43	1
Total Dissolved Solids	**120**		5.0		mg/L			08/08/19 09:05	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 02:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**20**		4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**26.2**				NTU			08/05/19 14:39	1
Temperature	**29.3**				Degrees C			08/05/19 14:39	1
Field pH	**7.35**				SU			08/05/19 14:39	1
Specific Conductance	**264**				umhos/cm			08/05/19 14:39	1
Field EH/ORP	**-148.1**				millivolts			08/05/19 14:39	1
Oxygen, Dissolved	**6.5**				mg/L			08/05/19 14:39	1
Depth to Water from Top of Casing	**13.69**				ft			08/05/19 14:39	1

Client Sample ID: W11-3E

Date Collected: 08/05/19 13:58
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/07/19 07:45	08/07/19 19:50	1
Barium	**0.010**		0.0050		mg/L		08/07/19 07:45	08/07/19 19:50	1
Calcium	**22**		0.15		mg/L		08/07/19 07:45	08/07/19 19:50	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 19:50	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:50	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 19:50	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 19:50	1
Magnesium	**15**		0.24		mg/L		08/07/19 07:45	08/07/19 19:50	1
Manganese	**0.016**		0.010		mg/L		08/07/19 07:45	08/07/19 19:50	1
Potassium	**1.9**		0.20		mg/L		08/07/19 07:45	08/07/19 19:50	1
Sodium	**12**		0.40		mg/L		08/07/19 07:45	08/07/19 19:50	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 19:50	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 19:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 01:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.083**				%			09/17/19 22:47	1
Calculated TDS	**140**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.52**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			08/07/19 20:40	2
Ammonia as N	**0.053**		0.020		mg/L as N			08/06/19 13:44	1
Nitrate	**0.19**		0.050		mg/L as N			08/06/19 17:36	1
Sulfate	ND	U	5.0		mg/L			08/11/19 12:02	1
Chloride	**3.1**		0.50		mg/L			08/07/19 19:51	1
Total Dissolved Solids	**150**		5.0		mg/L			08/08/19 09:05	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 03:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.2**				NTU			08/05/19 13:58	1
Temperature	**24.5**				Degrees C			08/05/19 13:58	1
Field pH	**7.49**				SU			08/05/19 13:58	1
Specific Conductance	**288**				umhos/cm			08/05/19 13:58	1
Ground Water Elevation	**254.66**				ft/msl			08/05/19 13:58	1
Field EH/ORP	**-146.5**				millivolts			08/05/19 13:58	1
Oxygen, Dissolved	**8.0**				mg/L			08/05/19 13:58	1
Depth to Water from Top of Casing	**7.27**				ft			08/05/19 13:58	1

Client Sample ID: W11-4E

Date Collected: 08/05/19 12:07
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/07/19 07:45	08/07/19 20:05	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:05	1
Calcium	**43**		0.15		mg/L		08/07/19 07:45	08/07/19 20:05	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 20:05	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:05	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 20:05	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:05	1
Magnesium	**35**		0.24		mg/L		08/07/19 07:45	08/07/19 20:05	1
Manganese	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 20:05	1
Potassium	**3.3**		0.20		mg/L		08/07/19 07:45	08/07/19 20:05	1
Sodium	**17**		0.40		mg/L		08/07/19 07:45	08/08/19 13:57	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:05	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 20:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 01:45	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.1**				%			09/17/19 22:47	1
Calculated TDS	**280**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.94**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.46**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**290**		40		mg/L			08/07/19 20:40	4
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:47	1
Nitrate	ND	U	0.050		mg/L as N			08/06/19 15:44	1
Sulfate	**14**		5.0		mg/L			08/11/19 12:02	1
Chloride	**4.7**		0.50		mg/L			08/07/19 19:51	1
Total Dissolved Solids	**380**		5.0		mg/L			08/08/19 09:05	1
Total Dissolved Solids	**260**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 03:26	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.8**				NTU			08/05/19 12:07	1
Temperature	**31.4**				Degrees C			08/05/19 12:07	1
Field pH	**7.29**				SU			08/05/19 12:07	1
Specific Conductance	**563**				umhos/cm			08/05/19 12:07	1
Field EH/ORP	**177.3**				millivolts			08/05/19 12:07	1
Oxygen, Dissolved	**5.9**				mg/L			08/05/19 12:07	1
Depth to Water from Top of Casing	**21.88**				ft			08/05/19 12:07	1

Client Sample ID: W11-5E

Date Collected: 08/05/19 12:34
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**		0.0090		mg/L		08/07/19 07:45	08/07/19 20:08	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:08	1
Calcium	**15**		0.15		mg/L		08/07/19 07:45	08/07/19 20:08	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 20:08	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:08	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 20:08	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:08	1
Magnesium	**7.8**		0.24		mg/L		08/07/19 07:45	08/07/19 20:08	1
Manganese	**0.047**		0.010		mg/L		08/07/19 07:45	08/07/19 20:08	1
Potassium	**1.0**		0.20		mg/L		08/07/19 07:45	08/07/19 20:08	1
Sodium	**6.1**		0.40		mg/L		08/07/19 07:45	08/08/19 14:01	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:08	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 20:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 01:37	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.1**				%			09/17/19 22:47	1
Calculated TDS	**79**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.49**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**78**		10		mg/L			08/07/19 20:33	1
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:47	1
Nitrate	ND	U	0.050		mg/L as N			08/06/19 17:37	1
Sulfate	ND	U	5.0		mg/L			08/11/19 12:29	1
Chloride	**2.0**		0.50		mg/L			08/07/19 19:51	1
Total Dissolved Solids	**84**		5.0		mg/L			08/08/19 09:05	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 03:41	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/05/19 12:34	1
Temperature	**22.9**				Degrees C			08/05/19 12:34	1
Field pH	**8.42**				SU			08/05/19 12:34	1
Specific Conductance	**171**				umhos/cm			08/05/19 12:34	1
Field EH/ORP	**38.1**				millivolts			08/05/19 12:34	1
Oxygen, Dissolved	**1.5**				mg/L			08/05/19 12:34	1
Depth to Water from Top of Casing	**15.57**				ft			08/05/19 12:34	1

Client Sample ID: W11-6E

Date Collected: 08/05/19 12:55
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/07/19 07:45	08/07/19 20:12	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:12	1
Calcium	**19**		0.15		mg/L		08/07/19 07:45	08/07/19 20:12	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 20:12	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:12	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 20:12	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:12	1
Magnesium	**15**		0.24		mg/L		08/07/19 07:45	08/07/19 20:12	1
Manganese	**0.010**		0.010		mg/L		08/07/19 07:45	08/07/19 20:12	1
Potassium	**1.2**		0.20		mg/L		08/07/19 07:45	08/07/19 20:12	1
Sodium	**7.4**		0.40		mg/L		08/07/19 07:45	08/08/19 14:05	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:12	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 20:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 01:41	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.3**				%			09/17/19 22:47	1
Calculated TDS	**110**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.2**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.52**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			08/07/19 20:03	2
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:48	1
Nitrate	**1.4**		0.050		mg/L as N			08/06/19 15:46	1
Sulfate	**17**		5.0		mg/L			08/11/19 12:29	1
Chloride	**2.0**		0.50		mg/L			08/07/19 19:51	1
Total Dissolved Solids	**140**		5.0		mg/L			08/08/19 09:05	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 03:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.6**				NTU			08/05/19 12:55	1
Temperature	**26.3**				Degrees C			08/05/19 12:55	1
Field pH	**6.42**				SU			08/05/19 12:55	1
Specific Conductance	**270**				umhos/cm			08/05/19 12:55	1
Ground Water Elevation	**228.58**				ft/msl			08/05/19 12:55	1
Field EH/ORP	**-83.6**				millivolts			08/05/19 12:55	1
Oxygen, Dissolved	**6.3**				mg/L			08/05/19 12:55	1
Depth to Water from Top of Casing	**16.55**				ft			08/05/19 12:55	1

Client Sample ID: W11-5B

Date Collected: 08/05/19 12:07
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.019**		0.0090		mg/L		08/07/19 07:45	08/07/19 20:16	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:16	1
Calcium	**15**		0.15		mg/L		08/07/19 07:45	08/07/19 20:16	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 20:16	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:16	1
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/07/19 20:16	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 20:16	1
Magnesium	**3.2**		0.24		mg/L		08/07/19 07:45	08/07/19 20:16	1
Manganese	**0.015**		0.010		mg/L		08/07/19 07:45	08/07/19 20:16	1
Potassium	**2.8**		0.20		mg/L		08/07/19 07:45	08/07/19 20:16	1
Sodium	**9.2**		0.40		mg/L		08/07/19 07:45	08/08/19 14:19	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 20:16	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 20:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 02:04	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.1**				%			09/17/19 22:47	1
Calculated TDS	**74**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.92**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.47**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**69**		10		mg/L			08/07/19 19:45	1
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 14:02	1
Nitrate	ND	U	0.050		mg/L as N			08/06/19 15:48	1
Sulfate	**5.5**		5.0		mg/L			08/11/19 12:29	1
Chloride	**1.9**		0.50		mg/L			08/08/19 19:19	1
Total Dissolved Solids	**470**		5.0		mg/L			08/08/19 09:05	1
Total Dissolved Solids	**68**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 04:41	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/07/19 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/05/19 12:07	1
Temperature	**15.9**				Degrees C			08/05/19 12:07	1
Field pH	**8.54**				SU			08/05/19 12:07	1
Specific Conductance	**146**				umhos/cm			08/05/19 12:07	1
Ground Water Elevation	**244.61**				ft/msl			08/05/19 12:07	1
Field EH/ORP	**3.0**				millivolts			08/05/19 12:07	1
Oxygen, Dissolved	**1.0**				mg/L			08/05/19 12:07	1
Depth to Water from Top of Casing	**28.58**				ft			08/05/19 12:07	1

Client Sample ID: W12-2E

Date Collected: 08/06/19 15:01
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:13	08/13/19 14:08	1
Barium	**0.010**		0.0050		mg/L		08/12/19 09:13	08/13/19 14:08	1
Calcium	**0.96**		0.15		mg/L		08/12/19 09:13	08/13/19 14:08	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:08	1
Copper	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:08	1
Iron	ND	U	0.030		mg/L		08/12/19 09:13	08/13/19 14:08	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 14:08	1
Magnesium	**0.52**		0.24		mg/L		08/12/19 09:13	08/13/19 14:08	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:08	1
Potassium	**0.39**		0.20		mg/L		08/12/19 09:13	08/14/19 12:43	1
Sodium	**1.3**		0.40		mg/L		08/12/19 09:13	08/13/19 14:08	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:08	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:13	08/13/19 14:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:38	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**60**				%			09/17/19 22:47	1
Calculated TDS	**4.6**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.00**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.00**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/08/19 19:45	1
Ammonia as N	ND	U	0.020		mg/L as N			08/07/19 15:28	1
Nitrate	ND	U	0.050		mg/L as N			08/07/19 14:48	1
Sulfate	ND	U	5.0		mg/L			08/12/19 17:32	1
Chloride	**1.4**		0.50		mg/L			08/08/19 19:11	1
Total Dissolved Solids	ND	U	5.0		mg/L			08/08/19 11:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 05:40	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/12/19 14:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.0**				NTU			08/06/19 15:01	1
Temperature	**25.1**				Degrees C			08/06/19 15:01	1
Field pH	**6.73**				SU			08/06/19 15:01	1
Specific Conductance	**31**				umhos/cm			08/06/19 15:01	1
Ground Water Elevation	**260.89**				ft/msl			08/06/19 15:01	1
Field EH/ORP	**59.4**				millivolts			08/06/19 15:01	1
Oxygen, Dissolved	**5.7**				mg/L			08/06/19 15:01	1
Depth to Water from Top of Casing	**8.02**				ft			08/06/19 15:01	1

Client Sample ID: W12-3E

Date Collected: 08/06/19 12:32
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:13	08/13/19 14:11	1
Barium	**0.0050**		0.0050		mg/L		08/12/19 09:13	08/13/19 14:11	1
Calcium	**39**		0.15		mg/L		08/12/19 09:13	08/13/19 14:11	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:11	1
Copper	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:11	1
Iron	ND	U	0.030		mg/L		08/12/19 09:13	08/13/19 14:11	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 14:11	1
Magnesium	**16**		0.24		mg/L		08/12/19 09:13	08/13/19 14:11	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:11	1
Potassium	**1.4**		0.20		mg/L		08/12/19 09:13	08/14/19 12:47	1
Sodium	**5.9**		0.40		mg/L		08/12/19 09:13	08/13/19 14:11	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:11	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:13	08/13/19 14:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:42	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.3**				%			09/17/19 22:47	1
Calculated TDS	**170**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.87**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.39**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**180**		30		mg/L			08/08/19 20:58	3
Ammonia as N	ND	U	0.020		mg/L as N			08/07/19 15:30	1
Nitrate	**0.14**		0.050		mg/L as N			08/07/19 15:57	1
Sulfate	ND	U	5.0		mg/L			08/12/19 17:32	1
Chloride	**1.6**		0.50		mg/L			08/08/19 19:11	1
Total Dissolved Solids	**150**		5.0		mg/L			08/08/19 11:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 05:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/12/19 14:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.7**				NTU			08/06/19 12:32	1
Temperature	**26.0**				Degrees C			08/06/19 12:32	1
Field pH	**7.68**				SU			08/06/19 12:32	1
Specific Conductance	**386**				umhos/cm			08/06/19 12:32	1
Ground Water Elevation	**240.47**				ft/msl			08/06/19 12:32	1
Field EH/ORP	**62.2**				millivolts			08/06/19 12:32	1
Oxygen, Dissolved	**5.6**				mg/L			08/06/19 12:32	1
Depth to Water from Top of Casing	**5.95**				ft			08/06/19 12:32	1

Client Sample ID: W12-4B

Date Collected: 08/06/19 14:10
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.022**		0.0090		mg/L		08/12/19 09:13	08/13/19 14:15	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 14:15	1
Calcium	**17**		0.15		mg/L		08/12/19 09:13	08/13/19 14:15	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:15	1
Copper	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:15	1
Iron	ND	U	0.030		mg/L		08/12/19 09:13	08/13/19 14:15	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 14:15	1
Magnesium	**3.2**		0.24		mg/L		08/12/19 09:13	08/13/19 14:15	1
Manganese	**0.010**		0.010		mg/L		08/12/19 09:13	08/13/19 14:15	1
Potassium	**3.5**		0.20		mg/L		08/12/19 09:13	08/14/19 13:02	1
Sodium	**11**		0.40		mg/L		08/12/19 09:13	08/13/19 14:15	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:15	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:13	08/13/19 14:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:45	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.7**				%			09/17/19 22:47	1
Calculated TDS	**84**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.72**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.36**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**79**		10		mg/L			08/08/19 19:45	1
Ammonia as N	ND	U	0.020		mg/L as N			08/07/19 15:31	1
Nitrate	ND	U	0.050		mg/L as N			08/07/19 14:50	1
Sulfate	ND	U	5.0		mg/L			08/12/19 18:17	1
Chloride	**1.6**		0.50		mg/L			08/08/19 19:11	1
Total Dissolved Solids	**60**		5.0		mg/L			08/08/19 11:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 06:10	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/12/19 14:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.3**				NTU			08/06/19 14:10	1
Temperature	**13.9**				Degrees C			08/06/19 14:10	1
Field pH	**8.15**				SU			08/06/19 14:10	1
Specific Conductance	**165**				umhos/cm			08/06/19 14:10	1
Ground Water Elevation	**232.58**				ft/msl			08/06/19 14:10	1
Field EH/ORP	**25.8**				millivolts			08/06/19 14:10	1
Oxygen, Dissolved	**0.5**				mg/L			08/06/19 14:10	1
Depth to Water from Top of Casing	**19.18**				ft			08/06/19 14:10	1

Client Sample ID: W12-4E

Date Collected: 08/06/19 13:12
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:13	08/13/19 14:19	1
Barium	**0.0085**		0.0050		mg/L		08/12/19 09:13	08/13/19 14:19	1
Calcium	**9.8**		0.15		mg/L		08/12/19 09:13	08/13/19 14:19	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:19	1
Copper	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:19	1
Iron	ND	U	0.030		mg/L		08/12/19 09:13	08/13/19 14:19	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 14:19	1
Magnesium	**9.3**		0.24		mg/L		08/12/19 09:13	08/13/19 14:19	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 14:19	1
Potassium	**0.69**		0.20		mg/L		08/12/19 09:13	08/14/19 13:06	1
Sodium	**9.2**		0.40		mg/L		08/12/19 09:13	08/13/19 14:19	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 14:19	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:13	08/13/19 14:19	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-7.8**				%			09/17/19 22:47	1
Calculated TDS	**87**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.46**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**95**		10		mg/L			08/08/19 19:45	1
Ammonia as N	ND	U	0.020		mg/L as N			08/07/19 15:31	1
Nitrate	**0.39**		0.050		mg/L as N			08/07/19 15:58	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/10/19 10:42	1
Sulfate	ND	U	5.0		mg/L			08/12/19 22:43	1
Chloride	**0.96**		0.50		mg/L			08/09/19 11:01	1
Total Dissolved Solids	**93**		5.0		mg/L			08/08/19 11:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 06:25	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/12/19 14:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.2**				NTU			08/06/19 13:12	1
Temperature	**21.7**				Degrees C			08/06/19 13:12	1
Field pH	**6.55**				SU			08/06/19 13:12	1
Specific Conductance	**203**				umhos/cm			08/06/19 13:12	1
Ground Water Elevation	**243.34**				ft/msl			08/06/19 13:12	1
Field EH/ORP	**62.1**				millivolts			08/06/19 13:12	1
Oxygen, Dissolved	**3.5**				mg/L			08/06/19 13:12	1
Depth to Water from Top of Casing	**8.65**				ft			08/06/19 13:12	1

Client Sample ID: 101C

Date Collected: 08/07/19 16:08
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0090		mg/L		08/12/19 09:10	08/12/19 20:14	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:14	1
Calcium	**16**		0.15		mg/L		08/12/19 09:10	08/12/19 20:14	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:14	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:14	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 20:14	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:14	1
Magnesium	**3.0**		0.24		mg/L		08/12/19 09:10	08/12/19 20:14	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:14	1
Potassium	**3.1**		0.20		mg/L		08/12/19 09:10	08/12/19 20:14	1
Sodium	**8.5**		0.40		mg/L		08/12/19 09:10	08/12/19 20:14	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:14	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.9**				%			09/17/19 22:47	1
Calculated TDS	**68**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.2**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.54**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**61**		10		mg/L			08/09/19 10:43	1
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:43	1
Nitrate	ND	U	0.050		mg/L as N			08/08/19 16:49	1
Sulfate	**19**		5.0		mg/L			08/11/19 12:29	1
Chloride	**1.2**		0.50		mg/L			08/09/19 10:41	1
Total Dissolved Solids	**84**		5.0		mg/L			08/12/19 08:39	1
Total Organic Carbon	ND	U	1.0		mg/L			08/19/19 21:32	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/13/19 14:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.8**				NTU			08/07/19 16:08	1
Temperature	**12.6**				Degrees C			08/07/19 16:08	1
Field pH	**8.10**				SU			08/07/19 16:08	1
Specific Conductance	**157**				umhos/cm			08/07/19 16:08	1
Ground Water Elevation	**248.79**				ft/msl			08/07/19 16:08	1
Field EH/ORP	**-257.8**				millivolts			08/07/19 16:08	1
Oxygen, Dissolved	**0.8**				mg/L			08/07/19 16:08	1
Depth to Water from Top of Casing	**23.46**				ft			08/07/19 16:08	1

Client Sample ID: 104C

Date Collected: 08/07/19 12:32
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0090		mg/L		08/12/19 09:10	08/12/19 20:32	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:32	1
Calcium	**21**		0.15		mg/L		08/12/19 09:10	08/12/19 20:32	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:32	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:32	1
Iron	**0.035**		0.030		mg/L		08/12/19 09:10	08/12/19 20:32	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:32	1
Magnesium	**4.2**		0.24		mg/L		08/12/19 09:10	08/12/19 20:32	1
Manganese	**0.21**		0.010		mg/L		08/12/19 09:10	08/12/19 20:32	1
Potassium	**2.5**		0.20		mg/L		08/12/19 09:10	08/12/19 20:32	1
Sodium	**7.6**		0.40		mg/L		08/12/19 09:10	08/12/19 20:32	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:32	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 18:57	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.7**				%			09/17/19 22:47	1
Calculated TDS	**85**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.45**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**80**		10		mg/L			08/09/19 11:11	1
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:44	1
Nitrate	**0.053**		0.050		mg/L as N			08/08/19 17:21	1
Sulfate	**10**		5.0		mg/L			08/12/19 18:17	1
Chloride	**1.8**		0.50		mg/L			08/09/19 10:41	1
Total Dissolved Solids	**97**		5.0		mg/L			09/18/19 14:20	1
Total Organic Carbon	ND	U	1.0		mg/L			08/19/19 21:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/09/19 10:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.8**				NTU			08/07/19 12:32	1
Temperature	**19.0**				Degrees C			08/07/19 12:32	1
Field pH	**7.53**				SU			08/07/19 12:32	1
Specific Conductance	**217**				umhos/cm			08/07/19 12:32	1
Ground Water Elevation	**247.37**				ft/msl			08/07/19 12:32	1
Field EH/ORP	**-198.9**				millivolts			08/07/19 12:32	1
Oxygen, Dissolved	**6.1**				mg/L			08/07/19 12:32	1
Depth to Water from Top of Casing	**9.13**				ft			08/07/19 12:32	1

Client Sample ID: 104D

Date Collected: 08/07/19 12:08
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 20:36	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:36	1
Calcium	**4.0**		0.15		mg/L		08/12/19 09:10	08/12/19 20:36	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:36	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:36	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 20:36	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:36	1
Magnesium	**0.52**		0.24		mg/L		08/12/19 09:10	08/12/19 20:36	1
Manganese	**0.012**		0.010		mg/L		08/12/19 09:10	08/12/19 20:36	1
Potassium	**1.1**		0.20		mg/L		08/12/19 09:10	08/12/19 20:36	1
Sodium	**36**		0.40		mg/L		08/12/19 09:10	08/12/19 20:36	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:36	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:01	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.7**				%			09/17/19 22:47	1
Calculated TDS	**91**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.99**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.47**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**80**		10		mg/L			08/09/19 10:43	1
Ammonia as N	**0.092**		0.020		mg/L as N			08/08/19 14:45	1
Nitrate	**0.062**		0.050		mg/L as N			08/08/19 16:52	1
Sulfate	**13**		5.0		mg/L			08/12/19 18:17	1
Chloride	**0.99**		0.50		mg/L			08/09/19 10:41	1
Total Dissolved Solids	**90**		5.0		mg/L			09/18/19 14:20	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 09:19	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/09/19 10:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.5**				NTU			08/07/19 12:08	1
Temperature	**24.5**				Degrees C			08/07/19 12:08	1
Field pH	**8.44**				SU			08/07/19 12:08	1
Specific Conductance	**191**				umhos/cm			08/07/19 12:08	1
Ground Water Elevation	**247.49**				ft/msl			08/07/19 12:08	1
Field EH/ORP	**-189.8**				millivolts			08/07/19 12:08	1
Oxygen, Dissolved	**8.3**				mg/L			08/07/19 12:08	1
Depth to Water from Top of Casing	**8.98**				ft			08/07/19 12:08	1

Client Sample ID: 630B

Date Collected: 08/07/19 15:23
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**		0.0090		mg/L		08/12/19 09:10	08/12/19 20:39	1
Barium	**0.010**		0.0050		mg/L		08/12/19 09:10	08/12/19 20:39	1
Calcium	**18**		0.15		mg/L		08/12/19 09:10	08/12/19 20:39	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:39	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:39	1
Iron	**0.096**		0.030		mg/L		08/12/19 09:10	08/12/19 20:39	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:39	1
Magnesium	**3.4**		0.24		mg/L		08/12/19 09:10	08/12/19 20:39	1
Manganese	**0.014**		0.010		mg/L		08/12/19 09:10	08/12/19 20:39	1
Potassium	**2.3**		0.20		mg/L		08/12/19 09:10	08/12/19 20:39	1
Sodium	**8.1**		0.40		mg/L		08/12/19 09:10	08/12/19 20:39	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:39	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.1**				%			09/17/19 22:47	1
Calculated TDS	**75**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.3**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.62**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**68**		10		mg/L			08/09/19 10:43	1
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:45	1
Nitrate	ND	U	0.050		mg/L as N			08/08/19 16:53	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/10/19 11:20	1
Sulfate	**15**		5.0		mg/L			08/11/19 12:06	1
Chloride	**2.1**		0.50		mg/L			08/09/19 11:01	1
Total Dissolved Solids	**100**		5.0		mg/L			09/18/19 14:20	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 10:08	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/09/19 10:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.4**				NTU			08/07/19 15:23	1
Temperature	**13.0**				Degrees C			08/07/19 15:23	1
Field pH	**8.47**				SU			08/07/19 15:23	1
Specific Conductance	**161**				umhos/cm			08/07/19 15:23	1
Ground Water Elevation	**250.04**				ft/msl			08/07/19 15:23	1
Field EH/ORP	**-32.4**				millivolts			08/07/19 15:23	1
Oxygen, Dissolved	**0.9**				mg/L			08/07/19 15:23	1
Depth to Water from Top of Casing	**19.81**				ft			08/07/19 15:23	1

Client Sample ID: 630E

Date Collected: 08/07/19 14:34
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 20:43	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:43	1
Calcium	**14**		0.15		mg/L		08/12/19 09:10	08/12/19 20:43	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:43	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:43	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 20:43	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:43	1
Magnesium	**9.4**		0.24		mg/L		08/12/19 09:10	08/12/19 20:43	1
Manganese	**0.96**		0.010		mg/L		08/12/19 09:10	08/12/19 20:43	1
Potassium	**0.53**		0.20		mg/L		08/12/19 09:10	08/12/19 20:43	1
Sodium	**5.1**		0.40		mg/L		08/12/19 09:10	08/12/19 20:43	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:43	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:16	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.5**				%			09/17/19 22:47	1
Calculated TDS	**71**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.4**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.55**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			08/09/19 10:43	1
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:50	1
Nitrate	**2.3**		0.050		mg/L as N			08/08/19 17:23	1
Sulfate	**12**		5.0		mg/L			08/11/19 12:06	1
Chloride	**1.4**		0.50		mg/L			08/09/19 10:41	1
Total Dissolved Solids	**100**		5.0		mg/L			09/18/19 14:20	1
Total Organic Carbon	**1.7**		1.0		mg/L			08/20/19 10:25	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/09/19 10:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.3**				NTU			08/07/19 14:34	1
Temperature	**22.4**				Degrees C			08/07/19 14:34	1
Field pH	**6.54**				SU			08/07/19 14:34	1
Specific Conductance	**183**				umhos/cm			08/07/19 14:34	1
Ground Water Elevation	**259.30**				ft/msl			08/07/19 14:34	1
Field EH/ORP	**52.6**				millivolts			08/07/19 14:34	1
Oxygen, Dissolved	**2.2**				mg/L			08/07/19 14:34	1
Depth to Water from Top of Casing	**10.27**				ft			08/07/19 14:34	1

Client Sample ID: DUP-GW-01

Date Collected: 08/07/19 12:08
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 20:58	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:58	1
Calcium	**4.0**		0.15		mg/L		08/12/19 09:10	08/12/19 20:58	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 20:58	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:58	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 20:58	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 20:58	1
Magnesium	**0.53**		0.24		mg/L		08/12/19 09:10	08/12/19 20:58	1
Manganese	**0.012**		0.010		mg/L		08/12/19 09:10	08/12/19 20:58	1
Potassium	**1.1**		0.20		mg/L		08/12/19 09:10	08/12/19 20:58	1
Sodium	**36**		0.40		mg/L		08/12/19 09:10	08/12/19 20:58	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 20:58	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 20:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:20	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.2**				%			09/17/19 22:47	1
Calculated TDS	**91**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.52**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**80**		10		mg/L			08/09/19 11:31	1
Ammonia as N	**0.11**		0.020		mg/L as N			08/08/19 14:51	1
Nitrate	**0.099**		0.050		mg/L as N			08/08/19 17:24	1
Sulfate	**13**		5.0		mg/L			08/11/19 15:40	1
Chloride	**1.5**		0.50		mg/L			08/09/19 11:01	1
Total Dissolved Solids	**100**		5.0		mg/L			09/18/19 14:20	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 10:41	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/09/19 10:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.5**				NTU			08/07/19 12:08	1
Temperature	**24.5**				Degrees C			08/07/19 12:08	1
Field pH	**8.44**				SU			08/07/19 12:08	1
Specific Conductance	**191**				umhos/cm			08/07/19 12:08	1
Field EH/ORP	**-189.8**				millivolts			08/07/19 12:08	1
Oxygen, Dissolved	**8.3**				mg/L			08/07/19 12:08	1

Client Sample ID: W11-2E

Date Collected: 08/07/19 11:48
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:02	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:02	1
Calcium	**15**		0.15		mg/L		08/12/19 09:10	08/12/19 21:02	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:02	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:02	1
Iron	**0.038**		0.030		mg/L		08/12/19 09:10	08/12/19 21:02	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:02	1
Magnesium	**12**		0.24		mg/L		08/12/19 09:10	08/12/19 21:02	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:02	1
Potassium	**1.1**		0.20		mg/L		08/12/19 09:10	08/12/19 21:02	1
Sodium	**9.4**		0.40		mg/L		08/12/19 09:10	08/12/19 21:02	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:02	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:23	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.6**				%			09/17/19 22:47	1
Calculated TDS	**110**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.0**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.47**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**94**		20		mg/L			08/09/19 11:21	2
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:51	1
Nitrate	ND	U	0.050		mg/L as N			08/08/19 16:56	1
Sulfate	ND	U	5.0		mg/L			08/11/19 12:42	1
Chloride	**13**		0.50		mg/L			08/09/19 11:01	1
Total Dissolved Solids	**110**		5.0		mg/L			08/12/19 08:39	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 10:58	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/13/19 14:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.0**				NTU			08/07/19 11:48	1
Temperature	**25.8**				Degrees C			08/07/19 11:48	1
Field pH	**7.82**				SU			08/07/19 11:48	1
Specific Conductance	**233**				umhos/cm			08/07/19 11:48	1
Ground Water Elevation	**256.12**				ft/msl			08/07/19 11:48	1
Field EH/ORP	**-172.3**				millivolts			08/07/19 11:48	1
Oxygen, Dissolved	**7.1**				mg/L			08/07/19 11:48	1
Depth to Water from Top of Casing	**10.51**				ft			08/07/19 11:48	1

Client Sample ID: W12-1B

Date Collected: 08/07/19 13:20
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-8

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0090**		0.0090		mg/L		08/12/19 09:10	08/12/19 21:05	1
Barium	**0.0050**		0.0050		mg/L		08/12/19 09:10	08/12/19 21:05	1
Calcium	**26**		0.15		mg/L		08/12/19 09:10	08/12/19 21:05	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:05	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:05	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:05	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:05	1
Magnesium	**4.9**		0.24		mg/L		08/12/19 09:10	08/12/19 21:05	1
Manganese	**0.045**		0.010		mg/L		08/12/19 09:10	08/12/19 21:05	1
Potassium	**3.7**		0.20		mg/L		08/12/19 09:10	08/12/19 21:05	1
Sodium	**2.9**		0.40		mg/L		08/12/19 09:10	08/12/19 21:05	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:05	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/22/19 19:27	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.6**				%			09/17/19 22:47	1
Calculated TDS	**97**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.53**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**97**		20		mg/L			08/09/19 11:21	2
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:52	1
Nitrate	ND	U	0.050		mg/L as N			08/08/19 16:57	1
Sulfate	ND	U	5.0		mg/L			08/11/19 12:04	1
Chloride	**1.7**		0.50		mg/L			08/09/19 11:01	1
Total Dissolved Solids	**110**		5.0		mg/L			08/12/19 08:39	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 12:20	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/13/19 14:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.2**				NTU			08/07/19 13:20	1
Temperature	**9.7**				Degrees C			08/07/19 13:20	1
Field pH	**7.66**				SU			08/07/19 13:20	1
Specific Conductance	**209**				umhos/cm			08/07/19 13:20	1
Ground Water Elevation	**242.28**				ft/msl			08/07/19 13:20	1
Field EH/ORP	**-18.1**				millivolts			08/07/19 13:20	1
Oxygen, Dissolved	**0.7**				mg/L			08/07/19 13:20	1
Depth to Water from Top of Casing	**9.79**				ft			08/07/19 13:20	1

Client Sample ID: 106CR

Date Collected: 08/08/19 15:17
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:09	1
Barium	**0.013**		0.0050		mg/L		08/12/19 09:10	08/12/19 21:09	1
Calcium	**59**		0.15		mg/L		08/12/19 09:10	08/12/19 21:09	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:09	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:09	1
Iron	**0.23**		0.030		mg/L		08/12/19 09:10	08/12/19 21:09	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:09	1
Magnesium	**8.7**		0.24		mg/L		08/12/19 09:10	08/12/19 21:09	1
Manganese	**0.13**		0.010		mg/L		08/12/19 09:10	08/12/19 21:09	1
Potassium	**6.4**		0.20		mg/L		08/12/19 09:10	08/12/19 21:09	1
Sodium	**7.7**		0.40		mg/L		08/12/19 09:10	08/12/19 21:09	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:09	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:38	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.0**				%			09/17/19 22:47	1
Calculated TDS	**200**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.54**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**190**		30		mg/L			08/13/19 14:04	3
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:00	1
Nitrate	ND	U	0.050		mg/L as N			08/09/19 12:33	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1
Sulfate	**25**		5.0		mg/L			08/12/19 22:43	1
Chloride	**7.4**		0.50		mg/L			08/13/19 14:01	1
Total Dissolved Solids	**220**		5.0		mg/L			08/12/19 16:26	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 13:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/14/19 12:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.0**				NTU			08/08/19 15:17	1
Temperature	**11.3**				Degrees C			08/08/19 15:17	1
Field pH	**7.39**				SU			08/08/19 15:17	1
Specific Conductance	**411**				umhos/cm			08/08/19 15:17	1
Ground Water Elevation	**244.32**				ft/msl			08/08/19 15:17	1
Field EH/ORP	**-160.0**				millivolts			08/08/19 15:17	1
Oxygen, Dissolved	**1.2**				mg/L			08/08/19 15:17	1
Depth to Water from Top of Casing	**21.95**				ft			08/08/19 15:17	1

Client Sample ID: 106DR

Date Collected: 08/08/19 14:30
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:13	1
Barium	**0.022**		0.0050		mg/L		08/12/19 09:10	08/12/19 21:13	1
Calcium	**96**		0.15		mg/L		08/12/19 09:10	08/12/19 21:13	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:13	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:13	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:13	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:13	1
Magnesium	**11**		0.24		mg/L		08/12/19 09:10	08/12/19 21:13	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:13	1
Potassium	**6.5**		0.20		mg/L		08/12/19 09:10	08/12/19 21:13	1
Sodium	**3.6**		0.40		mg/L		08/12/19 09:10	08/12/19 21:13	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:13	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:34	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.3**				%			09/17/19 22:47	1
Calculated TDS	**290**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.3**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.67**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**290**		40		mg/L			08/13/19 14:05	4
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:00	1
Nitrate	ND	U	0.050		mg/L as N			08/09/19 12:34	1
Sulfate	**27**		5.0		mg/L			08/12/19 22:43	1
Chloride	**2.5**		0.50		mg/L			08/13/19 14:01	1
Total Dissolved Solids	**370**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 13:26	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**13**		4.0		mg/L			08/14/19 12:29	1
Total Suspended Solids	ND	U	4.0		mg/L			09/27/19 13:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.1**				NTU			08/08/19 14:30	1
Temperature	**10.8**				Degrees C			08/08/19 14:30	1
Field pH	**7.14**				SU			08/08/19 14:30	1
Specific Conductance	**551**				umhos/cm			08/08/19 14:30	1
Ground Water Elevation	**244.15**				ft/msl			08/08/19 14:30	1
Field EH/ORP	**-123.1**				millivolts			08/08/19 14:30	1
Oxygen, Dissolved	**0.5**				mg/L			08/08/19 14:30	1
Depth to Water from Top of Casing	**22.00**				ft			08/08/19 14:30	1

Client Sample ID: 106WR

Date Collected: 08/08/19 13:35
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:16	1
Barium	**0.0073**		0.0050		mg/L		08/12/19 09:10	08/12/19 21:16	1
Calcium	**59**		0.15		mg/L		08/12/19 09:10	08/12/19 21:16	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:16	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:16	1
Iron	**0.57**		0.030		mg/L		08/12/19 09:10	08/12/19 21:16	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:16	1
Magnesium	**8.5**		0.24		mg/L		08/12/19 09:10	08/12/19 21:16	1
Manganese	**0.016**		0.010		mg/L		08/12/19 09:10	08/12/19 21:16	1
Potassium	**3.0**		0.20		mg/L		08/12/19 09:10	08/12/19 21:16	1
Sodium	**2.8**		0.40		mg/L		08/12/19 09:10	08/12/19 21:16	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:16	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.37**		0.25		mg/L		09/06/19 12:00	09/09/19 14:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.7**				%			09/17/19 22:47	1
Calculated TDS	**180**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.2**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.57**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**170**		20		mg/L			08/13/19 14:13	2
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:01	1
Nitrate	**0.41**		0.050		mg/L as N			08/09/19 13:15	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1
Sulfate	**5.8**		5.0		mg/L			08/12/19 22:43	1
Chloride	**1.7**		0.50		mg/L			08/13/19 14:02	1
Total Dissolved Solids	**210**		5.0		mg/L			08/15/19 16:42	1
Total Organic Carbon	**1.0**		1.0		mg/L			08/20/19 13:42	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**16**		4.0		mg/L			08/14/19 12:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**10.6**				NTU			08/08/19 13:35	1
Temperature	**10.8**				Degrees C			08/08/19 13:35	1
Field pH	**6.43**				SU			08/08/19 13:35	1
Specific Conductance	**370**				umhos/cm			08/08/19 13:35	1
Ground Water Elevation	**244.29**				ft/msl			08/08/19 13:35	1
Field EH/ORP	**-19.4**				millivolts			08/08/19 13:35	1
Oxygen, Dissolved	**7.8**				mg/L			08/08/19 13:35	1
Depth to Water from Top of Casing	**21.51**				ft			08/08/19 13:35	1

Client Sample ID: 627A

Date Collected: 08/08/19 14:50
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:20	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:20	1
Calcium	**8.9**		0.15		mg/L		08/12/19 09:10	08/12/19 21:20	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:20	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:20	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:20	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:20	1
Magnesium	**1.9**		0.24		mg/L		08/12/19 09:10	08/12/19 21:20	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:20	1
Potassium	**2.3**		0.20		mg/L		08/12/19 09:10	08/12/19 21:20	1
Sodium	**14**		0.40		mg/L		08/12/19 09:10	08/12/19 21:20	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:20	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:42	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-8.1**				%			09/17/19 22:47	1
Calculated TDS	**66**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.51**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**54**		10		mg/L			08/13/19 14:03	1
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:47	1
Nitrate	**0.058**		0.050		mg/L as N			08/09/19 13:16	1
Sulfate	**11**		5.0		mg/L			08/12/19 22:43	1
Chloride	**6.4**		0.50		mg/L			08/13/19 14:02	1
Total Dissolved Solids	**75**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 13:59	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/14/19 12:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/08/19 14:50	1
Temperature	**18.9**				Degrees C			08/08/19 14:50	1
Field pH	**7.92**				SU			08/08/19 14:50	1
Specific Conductance	**148**				umhos/cm			08/08/19 14:50	1
Ground Water Elevation	**238.21**				ft/msl			08/08/19 14:50	1
Field EH/ORP	**19.2**				millivolts			08/08/19 14:50	1
Oxygen, Dissolved	**6.7**				mg/L			08/08/19 14:50	1
Depth to Water from Top of Casing	**3.78**				ft			08/08/19 14:50	1

Client Sample ID: 628A

Date Collected: 08/08/19 14:15
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:28	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:28	1
Calcium	**13**		0.15		mg/L		08/12/19 09:10	08/12/19 21:28	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:28	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:28	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:28	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:28	1
Magnesium	**3.5**		0.24		mg/L		08/12/19 09:10	08/12/19 21:28	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:28	1
Potassium	**2.6**		0.20		mg/L		08/12/19 09:10	08/12/19 21:28	1
Sodium	**13**		0.40		mg/L		08/12/19 09:10	08/12/19 21:28	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:28	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:46	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-7.0**				%			09/17/19 22:47	1
Calculated TDS	**75**				mg/L			09/17/19 22:47	1
TDS Ratio	**2.8**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**1.3**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**69**		10		mg/L			08/13/19 14:03	1
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:03	1
Nitrate	ND	U	0.050		mg/L as N			08/09/19 12:37	1
Sulfate	**18**		5.0		mg/L			08/12/19 22:35	1
Chloride	**1.8**		0.50		mg/L			08/13/19 14:10	1
Total Dissolved Solids	**210**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 14:15	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/14/19 12:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/08/19 14:15	1
Temperature	**18.2**				Degrees C			08/08/19 14:15	1
Field pH	**8.01**				SU			08/08/19 14:15	1
Specific Conductance	**167**				umhos/cm			08/08/19 14:15	1
Ground Water Elevation	**237.91**				ft/msl			08/08/19 14:15	1
Field EH/ORP	**9.0**				millivolts			08/08/19 14:15	1
Oxygen, Dissolved	**2.8**				mg/L			08/08/19 14:15	1
Depth to Water from Top of Casing	**4.28**				ft			08/08/19 14:15	1

Client Sample ID: 629B

Date Collected: 08/08/19 12:58
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.014**		0.0090		mg/L		08/12/19 09:10	08/12/19 21:24	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:24	1
Calcium	**19**		0.15		mg/L		08/12/19 09:10	08/12/19 21:24	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:24	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:24	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:24	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:24	1
Magnesium	**3.4**		0.24		mg/L		08/12/19 09:10	08/12/19 21:24	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:24	1
Potassium	**2.0**		0.20		mg/L		08/12/19 09:10	08/12/19 21:24	1
Sodium	**5.7**		0.40		mg/L		08/12/19 09:10	08/12/19 21:24	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:24	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/06/19 12:00	09/09/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-28**				%			09/17/19 22:47	1
Calculated TDS	**95**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.75**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.44**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**93**		10		mg/L			08/14/19 15:14	1
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:04	1
Nitrate	ND	U	0.050		mg/L as N			08/09/19 12:38	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1
Sulfate	**28**		5.0		mg/L			08/13/19 15:02	1
Chloride	**8.7**		0.50		mg/L			08/16/19 12:35	1
Total Dissolved Solids	**71**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 00:10	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**15**		4.0		mg/L			08/14/19 12:29	1
Total Suspended Solids	ND	U	5.3		mg/L			09/27/19 13:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**7.5**				NTU			08/08/19 12:58	1
Temperature	**16.2**				Degrees C			08/08/19 12:58	1
Field pH	**7.80**				SU			08/08/19 12:58	1
Specific Conductance	**162**				umhos/cm			08/08/19 12:58	1
Ground Water Elevation	**246.91**				ft/msl			08/08/19 12:58	1
Field EH/ORP	**4.5**				millivolts			08/08/19 12:58	1
Oxygen, Dissolved	**2.4**				mg/L			08/08/19 12:58	1
Depth to Water from Top of Casing	**18.23**				ft			08/08/19 12:58	1

Client Sample ID: 629E

Date Collected: 08/08/19 11:30
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 21:42	1
Barium	**0.0085**		0.0050		mg/L		08/12/19 09:10	08/12/19 21:42	1
Calcium	**12**		0.15		mg/L		08/12/19 09:10	08/12/19 21:42	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:42	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:42	1
Iron	**0.082**		0.030		mg/L		08/12/19 09:10	08/12/19 21:42	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:42	1
Magnesium	**17**		0.24		mg/L		08/12/19 09:10	08/12/19 21:42	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:42	1
Potassium	**1.0**		0.20		mg/L		08/12/19 09:10	08/12/19 21:42	1
Sodium	**9.8**		0.40		mg/L		08/12/19 09:10	08/12/19 21:42	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:42	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/06/19 12:00	09/09/19 14:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.45**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.0**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.48**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			08/13/19 14:13	2
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:05	1
Nitrate	**0.87**		0.050		mg/L as N			08/09/19 13:17	1
Sulfate	ND	U	5.0		mg/L			08/12/19 20:44	1
Chloride	**2.0**		0.50		mg/L			08/13/19 14:15	1
Total Dissolved Solids	**120**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 00:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.0**		4.0		mg/L			08/14/19 12:29	1
Total Suspended Solids	ND	U	4.0		mg/L			09/27/19 13:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.6**				NTU			08/08/19 11:30	1
Temperature	**21.6**				Degrees C			08/08/19 11:30	1
Field pH	**7.34**				SU			08/08/19 11:30	1
Specific Conductance	**248**				umhos/cm			08/08/19 11:30	1
Ground Water Elevation	**249.50**				ft/msl			08/08/19 11:30	1
Field EH/ORP	**32.1**				millivolts			08/08/19 11:30	1
Oxygen, Dissolved	**7.5**				mg/L			08/08/19 11:30	1
Depth to Water from Top of Casing	**16.18**				ft			08/08/19 11:30	1

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: DUP-GW-02

Date Collected: 08/08/19 12:58
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-8

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**		0.0090		mg/L		08/12/19 09:10	08/12/19 21:46	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:46	1
Calcium	**15**		0.15		mg/L		08/12/19 09:10	08/12/19 21:46	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:46	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:46	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 21:46	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 21:46	1
Magnesium	**2.7**		0.24		mg/L		08/12/19 09:10	08/12/19 21:46	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 21:46	1
Potassium	**1.6**		0.20		mg/L		08/12/19 09:10	08/12/19 21:46	1
Sodium	**4.5**		0.40		mg/L		08/12/19 09:10	08/12/19 21:46	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 21:46	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 21:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:31	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-17**				%			09/17/19 22:47	1
Calculated TDS	**67**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.46**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**68**		10		mg/L			08/13/19 14:03	1
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:06	1
Nitrate	ND	U	0.050		mg/L as N			08/09/19 12:46	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1
Sulfate	**14**		5.0		mg/L			08/13/19 15:02	1
Chloride	**2.2**		0.50		mg/L			08/13/19 14:15	1
Total Dissolved Solids	**74**		5.0		mg/L			08/13/19 10:16	1
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 00:39	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/14/19 12:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**7.5**				NTU			08/08/19 12:58	1
Temperature	**16.2**				Degrees C			08/08/19 12:58	1
Field pH	**7.80**				SU			08/08/19 12:58	1
Specific Conductance	**162**				umhos/cm			08/08/19 12:58	1
Field EH/ORP	**4.5**				millivolts			08/08/19 12:58	1
Oxygen, Dissolved	**2.4**				mg/L			08/08/19 12:58	1

Client Sample ID: 107BR

Date Collected: 08/09/19 14:25
Date Received: 08/10/19 09:15

Lab Sample ID: 480-157453-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/13/19 08:03	08/13/19 21:37	1
Barium	**0.051**		0.0050		mg/L		08/13/19 08:03	08/13/19 21:37	1
Calcium	**160**		0.15		mg/L		08/13/19 08:03	08/13/19 21:37	1
Chromium	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 21:37	1
Copper	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 21:37	1
Iron	**4.7**		0.030		mg/L		08/13/19 08:03	08/13/19 21:37	1
Lead	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 21:37	1
Magnesium	**15**		0.24		mg/L		08/13/19 08:03	08/13/19 21:37	1
Manganese	**2.3**		0.010		mg/L		08/13/19 08:03	08/13/19 21:37	1
Potassium	**7.4**		0.20		mg/L		08/13/19 08:03	08/13/19 21:37	1
Sodium	**5.2**		0.40		mg/L		08/13/19 08:03	08/13/19 21:37	1
Vanadium	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 21:37	1
Zinc	ND	U	0.020		mg/L		08/13/19 08:03	08/13/19 21:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:19	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.0**				%			09/17/19 22:47	1
Calculated TDS	**470**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.2**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.62**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**340**		40		mg/L			08/13/19 14:13	4
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:55	1
Nitrate	ND	U	0.050		mg/L as N			08/10/19 12:37	1
Chemical Oxygen Demand	**17**		10		mg/L			08/11/19 09:47	1
Sulfate	ND	U	5.0		mg/L			08/13/19 15:02	1
Chloride	**78**		1.0		mg/L			08/14/19 15:39	2
Total Dissolved Solids	**550**		5.0		mg/L			08/13/19 12:38	1
Total Organic Carbon	**1.8**		1.0		mg/L			08/23/19 23:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**10**		4.0		mg/L			08/14/19 13:22	1
Total Suspended Solids	**6.4**		4.0		mg/L			09/27/19 13:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**6.1**				NTU			08/09/19 14:25	1
Temperature	**15.1**				Degrees C			08/09/19 14:25	1
Field pH	**6.59**				SU			08/09/19 14:25	1
Specific Conductance	**886**				umhos/cm			08/09/19 14:25	1
Ground Water Elevation	**244.65**				ft/msl			08/09/19 14:25	1
Field EH/ORP	**-130.4**				millivolts			08/09/19 14:25	1
Oxygen, Dissolved	**0.6**				mg/L			08/09/19 14:25	1
Depth to Water from Top of Casing	**21.48**				ft			08/09/19 14:25	1

Client Sample ID: 107CR

Date Collected: 08/09/19 13:22
Date Received: 08/10/19 09:15

Lab Sample ID: 480-157453-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/13/19 08:03	08/13/19 22:07	1
Barium	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 22:07	1
Calcium	**20**		0.15		mg/L		08/13/19 08:03	08/13/19 22:07	1
Chromium	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 22:07	1
Copper	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 22:07	1
Iron	ND	U	0.030		mg/L		08/13/19 08:03	08/13/19 22:07	1
Lead	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 22:07	1
Magnesium	**10**		0.24		mg/L		08/13/19 08:03	08/13/19 22:07	1
Manganese	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 22:07	1
Potassium	**4.4**		0.20		mg/L		08/13/19 08:03	08/13/19 22:07	1
Sodium	**56**		0.40		mg/L		08/13/19 08:03	08/13/19 22:07	1
Vanadium	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 22:07	1
Zinc	ND	U	0.020		mg/L		08/13/19 08:03	08/13/19 22:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:27	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.5**				%			09/17/19 22:47	1
Calculated TDS	**210**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.58**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**200**		30		mg/L			08/13/19 14:13	3
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:31	1
Nitrate	ND	U	0.050		mg/L as N			08/10/19 14:05	1
Sulfate	**8.6**		5.0		mg/L			08/12/19 22:35	1
Chloride	**2.2**		0.50		mg/L			08/13/19 14:15	1
Total Dissolved Solids	**230**		5.0		mg/L			08/13/19 12:38	1
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 03:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**21**		4.0		mg/L			08/14/19 13:22	1
Total Suspended Solids	ND	U	4.0		mg/L			08/20/19 14:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.7**				NTU			08/09/19 13:22	1
Temperature	**23.4**				Degrees C			08/09/19 13:22	1
Field pH	**7.74**				SU			08/09/19 13:22	1
Specific Conductance	**398**				umhos/cm			08/09/19 13:22	1
Ground Water Elevation	**244.37**				ft/msl			08/09/19 13:22	1
Field EH/ORP	**-82.6**				millivolts			08/09/19 13:22	1
Oxygen, Dissolved	**6.0**				mg/L			08/09/19 13:22	1
Depth to Water from Top of Casing	**21.34**				ft			08/09/19 13:22	1

Client Sample ID: TRANS

Date Collected: 08/09/19 15:10
Date Received: 08/10/19 09:15

Lab Sample ID: 480-157453-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/13/19 08:03	08/13/19 22:10	1
Barium	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 22:10	1
Calcium	**11**		0.15		mg/L		08/13/19 08:03	08/13/19 22:10	1
Chromium	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 22:10	1
Copper	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 22:10	1
Iron	ND	U	0.030		mg/L		08/13/19 08:03	08/13/19 22:10	1
Magnesium	**1.9**		0.24		mg/L		08/13/19 08:03	08/13/19 22:10	1
Manganese	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 22:10	1
Potassium	**1.5**		0.20		mg/L		08/13/19 08:03	08/13/19 22:10	1
Sodium	**14**		0.40		mg/L		08/13/19 08:03	08/13/19 22:10	1
Lead	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 22:10	1
Zinc	ND	U	0.020		mg/L		08/13/19 08:03	08/13/19 22:10	1
Vanadium	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 22:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 19:23	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**5.8**				%			09/17/19 22:47	1
Calculated TDS	**65**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.85**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.41**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**57**		10		mg/L			08/13/19 14:20	1
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:32	1
Nitrate	**0.11**		0.050		mg/L as N			08/10/19 14:05	1
Nitrite	ND	U	0.050		mg/L as N			08/10/19 12:37	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1
Sulfate	ND	U	5.0		mg/L			08/16/19 12:20	1
Chloride	**2.0**		0.50		mg/L			08/13/19 14:22	1
Total Dissolved Solids	**55**		5.0		mg/L			08/14/19 10:39	1
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 04:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/14/19 13:22	1

Method: SM 9223B - Coliforms, Total, and E.Coli

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Coliform	**2**		1		CFU/100mL			08/10/19 18:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.5**				NTU			08/09/19 15:10	1
Temperature	**10.9**				Degrees C			08/09/19 15:10	1
Field pH	**8.65**				SU			08/09/19 15:10	1
Specific Conductance	**135**				umhos/cm			08/09/19 15:10	1
Field EH/ORP	**-179.1**				millivolts			08/09/19 15:10	1
Oxygen, Dissolved	**3.4**				mg/L			08/09/19 15:10	1

Client Sample ID: 1008BR2

Date Collected: 08/19/19 12:40
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 06:43	08/22/19 15:02	1
Barium	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 15:02	1
Calcium	**18**		0.15		mg/L		08/22/19 06:43	08/22/19 15:02	1
Chromium	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 15:02	1
Copper	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:02	1
Iron	ND	U	0.030		mg/L		08/22/19 06:43	08/22/19 15:02	1
Lead	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 15:02	1
Magnesium	**2.2**		0.24		mg/L		08/22/19 06:43	08/22/19 15:02	1
Manganese	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 15:02	1
Potassium	**1.8**		0.20		mg/L		08/22/19 06:43	08/22/19 15:02	1
Sodium	**3.4**		0.40		mg/L		08/22/19 06:43	08/23/19 12:31	1
Vanadium	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:02	1
Zinc	ND	U	0.020		mg/L		08/22/19 06:43	08/22/19 15:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 12:22	08/29/19 18:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.1**				%			09/17/19 22:47	1
Calculated TDS	**58**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.3**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.54**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**51**		10		mg/L			08/22/19 16:25	1
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 10:16	1
Nitrate	**0.20**		0.050		mg/L as N			08/20/19 22:28	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/27/19 11:23	1
Sulfate	**6.0**		5.0		mg/L			08/26/19 20:27	1
Chloride	**2.2**		0.50		mg/L			08/22/19 16:23	1
Total Dissolved Solids	**74**		5.0		mg/L			08/21/19 08:30	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 06:22	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/21/19 14:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/19/19 12:40	1
Temperature	**14.9**				Degrees C			08/19/19 12:40	1
Field pH	**8.44**				SU			08/19/19 12:40	1
Specific Conductance	**136**				umhos/cm			08/19/19 12:40	1
Ground Water Elevation	**239.15**				ft/msl			08/19/19 12:40	1
Field EH/ORP	**-154.0**				millivolts			08/19/19 12:40	1
Oxygen, Dissolved	**5.9**				mg/L			08/19/19 12:40	1
Depth to Water from Top of Casing	**13.96**				ft			08/19/19 12:40	1

Client Sample ID: 1008ER2

Date Collected: 08/19/19 11:44
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 06:43	08/22/19 15:06	1
Barium	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 15:06	1
Calcium	**52**		0.15		mg/L		08/22/19 06:43	08/22/19 15:06	1
Chromium	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 15:06	1
Copper	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:06	1
Iron	**0.14**		0.030		mg/L		08/22/19 06:43	08/22/19 15:06	1
Lead	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 15:06	1
Magnesium	**37**		0.24		mg/L		08/22/19 06:43	08/22/19 15:06	1
Manganese	**1.6**		0.010		mg/L		08/22/19 06:43	08/22/19 15:06	1
Potassium	**0.68**		0.20		mg/L		08/22/19 06:43	08/22/19 15:06	1
Sodium	**8.1**		0.40		mg/L		08/22/19 06:43	08/23/19 12:35	1
Vanadium	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:06	1
Zinc	ND	U	0.020		mg/L		08/22/19 06:43	08/22/19 15:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 12:22	08/29/19 18:56	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.7**				%			09/17/19 22:47	1
Calculated TDS	**280**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.0**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.54**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**290**		40		mg/L			08/22/19 16:26	4
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 10:17	1
Nitrate	ND	U	0.050		mg/L as N			08/20/19 22:40	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/27/19 11:23	1
Sulfate	ND	U	5.0		mg/L			08/26/19 20:27	1
Chloride	**2.8**		0.50		mg/L			08/26/19 21:38	1
Total Dissolved Solids	**290**		5.0		mg/L			08/21/19 08:30	1
Total Organic Carbon	**1.5**		1.0		mg/L			08/23/19 06:37	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.0**		4.0		mg/L			08/26/19 10:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/19/19 11:44	1
Temperature	**21.1**				Degrees C			08/19/19 11:44	1
Field pH	**7.28**				SU			08/19/19 11:44	1
Specific Conductance	**541**				umhos/cm			08/19/19 11:44	1
Ground Water Elevation	**260.75**				ft/msl			08/19/19 11:44	1
Field EH/ORP	**-7.6**				millivolts			08/19/19 11:44	1
Oxygen, Dissolved	**5.9**				mg/L			08/19/19 11:44	1
Depth to Water from Top of Casing	**10.55**				ft			08/19/19 11:44	1

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W12-5E

Date Collected: 08/19/19 14:54
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 06:43	08/22/19 15:10	1
Barium	**0.0090**		0.0050		mg/L		08/22/19 06:43	08/22/19 15:10	1
Calcium	**55**		0.15		mg/L		08/22/19 06:43	08/22/19 15:10	1
Chromium	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 15:10	1
Copper	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:10	1
Iron	ND	U	0.030		mg/L		08/22/19 06:43	08/22/19 15:10	1
Lead	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 15:10	1
Magnesium	**6.4**		0.24		mg/L		08/22/19 06:43	08/22/19 15:10	1
Manganese	**0.065**		0.010		mg/L		08/22/19 06:43	08/22/19 15:10	1
Potassium	**4.8**		0.20		mg/L		08/22/19 06:43	08/22/19 15:10	1
Sodium	**1.3**		0.40		mg/L		08/22/19 06:43	08/23/19 12:38	1
Vanadium	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 15:10	1
Zinc	ND	U	0.020		mg/L		08/22/19 06:43	08/22/19 15:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 12:22	08/29/19 18:53	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.15**				%			09/17/19 22:47	1
Calculated TDS	**170**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.94**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.49**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**170**		20		mg/L			08/22/19 16:26	2
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 10:18	1
Nitrate	**0.68**		0.050		mg/L as N			08/20/19 19:26	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/24/19 09:30	1
Sulfate	ND	U	5.0		mg/L			08/26/19 20:50	1
Chloride	**0.62**		0.50		mg/L			08/22/19 16:23	1
Total Dissolved Solids	**160**		5.0		mg/L			08/21/19 08:30	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 06:51	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/21/19 14:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/19/19 14:54	1
Temperature	**13.2**				Degrees C			08/19/19 14:54	1
Field pH	**6.80**				SU			08/19/19 14:54	1
Specific Conductance	**330**				umhos/cm			08/19/19 14:54	1
Ground Water Elevation	**249.84**				ft/msl			08/19/19 14:54	1
Field EH/ORP	**-7.8**				millivolts			08/19/19 14:54	1
Oxygen, Dissolved	**0.3**				mg/L			08/19/19 14:54	1
Depth to Water from Top of Casing	**11.27**				ft			08/19/19 14:54	1

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 1041B

Date Collected: 08/20/19 13:21
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 08:20	08/22/19 20:18	1
Barium	**0.042**		0.0050		mg/L		08/22/19 08:20	08/22/19 20:18	1
Calcium	**52**		0.15		mg/L		08/22/19 08:20	08/22/19 20:18	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:18	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:18	1
Iron	ND	U	0.030		mg/L		08/22/19 08:20	08/22/19 20:18	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:18	1
Magnesium	**17**		0.24		mg/L		08/22/19 08:20	08/22/19 20:18	1
Manganese	**3.9**		0.010		mg/L		08/22/19 08:20	08/22/19 20:18	1
Potassium	**22**		0.20		mg/L		08/22/19 08:20	08/22/19 20:18	1
Sodium	**9.1**		0.40		mg/L		08/22/19 08:20	08/22/19 20:18	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:18	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 20:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:33	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.1**				%			09/17/19 22:47	1
Calculated TDS	**230**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.6**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.77**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**200**		30		mg/L			08/22/19 17:00	3
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:26	1
Nitrate	ND	U	0.050		mg/L as N			08/21/19 18:17	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/25/19 14:56	1
Sulfate	**60**		10		mg/L			08/27/19 20:59	2
Chloride	**6.0**		0.50		mg/L			08/22/19 17:10	1
Total Dissolved Solids	**360**		5.0		mg/L			08/22/19 08:22	1
Total Organic Carbon	**1.3**		1.0		mg/L			08/23/19 10:53	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/22/19 13:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.7**				NTU			08/20/19 13:21	1
Temperature	**20.2**				Degrees C			08/20/19 13:21	1
Field pH	**6.10**				SU			08/20/19 13:21	1
Specific Conductance	**470**				umhos/cm			08/20/19 13:21	1
Field EH/ORP	**216.8**				millivolts			08/20/19 13:21	1
Oxygen, Dissolved	**3.7**				mg/L			08/20/19 13:21	1

Client Sample ID: 310AW

Date Collected: 08/20/19 11:12
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 08:20	08/22/19 20:33	1
Barium	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:33	1
Calcium	**22**		0.15		mg/L		08/22/19 08:20	08/22/19 20:33	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:33	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:33	1
Iron	ND	U	0.030		mg/L		08/22/19 08:20	08/22/19 20:33	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:33	1
Magnesium	**2.3**		0.24		mg/L		08/22/19 08:20	08/22/19 20:33	1
Manganese	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:33	1
Potassium	**1.9**		0.20		mg/L		08/22/19 08:20	08/22/19 20:33	1
Sodium	**3.8**		0.40		mg/L		08/22/19 08:20	08/22/19 20:33	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:33	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 20:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:22	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.6**				%			09/17/19 22:47	1
Calculated TDS	**74**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.9**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.79**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**66**		10		mg/L			08/22/19 16:25	1
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:27	1
Nitrate	**0.24**		0.050		mg/L as N			08/21/19 18:18	1
Sulfate	ND	U	5.0		mg/L			08/27/19 19:19	1
Chloride	**4.2**		0.50		mg/L			08/22/19 16:23	1
Total Dissolved Solids	**140**		5.0		mg/L			08/22/19 08:22	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 11:08	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/22/19 13:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/20/19 11:12	1
Temperature	**21.8**				Degrees C			08/20/19 11:12	1
Field pH	**7.75**				SU			08/20/19 11:12	1
Specific Conductance	**177**				umhos/cm			08/20/19 11:12	1
Ground Water Elevation	**269.69**				ft/msl			08/20/19 11:12	1
Field EH/ORP	**6.3**				millivolts			08/20/19 11:12	1
Oxygen, Dissolved	**8.3**				mg/L			08/20/19 11:12	1
Depth to Water from Top of Casing	**5.69**				ft			08/20/19 11:12	1

Client Sample ID: 617A

Date Collected: 08/20/19 13:46
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**		0.0090		mg/L		08/22/19 08:20	08/22/19 20:37	1
Barium	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:37	1
Calcium	**14**		0.15		mg/L		08/22/19 08:20	08/22/19 20:37	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:37	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:37	1
Iron	**0.21**		0.030		mg/L		08/22/19 08:20	08/22/19 20:37	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:37	1
Magnesium	**3.3**		0.24		mg/L		08/22/19 08:20	08/22/19 20:37	1
Manganese	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:37	1
Potassium	**2.2**		0.20		mg/L		08/22/19 08:20	08/22/19 20:37	1
Sodium	**36**		0.40		mg/L		08/22/19 08:20	08/22/19 20:37	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:37	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 20:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.36**		0.25		mg/L		08/27/19 13:37	09/12/19 04:37	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.7**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.42**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**100**		20		mg/L			08/22/19 16:26	2
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:28	1
Nitrate	ND	U	0.050		mg/L as N			08/21/19 18:20	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/25/19 14:04	1
Sulfate	**29**		5.0		mg/L			08/27/19 21:12	1
Chloride	**3.2**		0.50		mg/L			08/22/19 17:10	1
Total Dissolved Solids	**130**		5.0		mg/L			08/22/19 08:22	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 11:23	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**12**		4.0		mg/L			08/22/19 13:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/20/19 13:46	1
Temperature	**22.9**				Degrees C			08/20/19 13:46	1
Field pH	**7.19**				SU			08/20/19 13:46	1
Specific Conductance	**313**				umhos/cm			08/20/19 13:46	1
Ground Water Elevation	**262.25**				ft/msl			08/20/19 13:46	1
Field EH/ORP	**214.1**				millivolts			08/20/19 13:46	1
Oxygen, Dissolved	**5.9**				mg/L			08/20/19 13:46	1
Depth to Water from Top of Casing	**6.41**				ft			08/20/19 13:46	1

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 617C
Date Collected: 08/20/19 12:49
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-4
Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 08:20	08/22/19 20:41	1
Barium	**0.010**		0.0050		mg/L		08/22/19 08:20	08/22/19 20:41	1
Calcium	**18**		0.15		mg/L		08/22/19 08:20	08/22/19 20:41	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:41	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:41	1
Iron	**0.38**		0.030		mg/L		08/22/19 08:20	08/22/19 20:41	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:41	1
Magnesium	**15**		0.24		mg/L		08/22/19 08:20	08/22/19 20:41	1
Manganese	**0.057**		0.010		mg/L		08/22/19 08:20	08/22/19 20:41	1
Potassium	**1.9**		0.20		mg/L		08/22/19 08:20	08/22/19 20:41	1
Sodium	**26**		0.40		mg/L		08/22/19 08:20	08/22/19 20:41	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:41	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 20:41	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:26	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.4**				%			09/17/19 22:47	1
Calculated TDS	**140**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.2**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.64**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			08/22/19 16:26	2
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:29	1
Nitrate	ND	U	0.050		mg/L as N			08/21/19 18:21	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/27/19 11:23	1
Sulfate	**24**		5.0		mg/L			08/27/19 19:22	1
Chloride	**2.9**		0.50		mg/L			08/22/19 17:02	1
Total Dissolved Solids	**170**		5.0		mg/L			08/22/19 08:22	1
Total Organic Carbon	**1.0**		1.0		mg/L			08/23/19 12:08	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.6**		4.0		mg/L			08/22/19 13:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.9**				NTU			08/20/19 12:49	1
Temperature	**18.4**				Degrees C			08/20/19 12:49	1
Field pH	**7.39**				SU			08/20/19 12:49	1
Specific Conductance	**265**				umhos/cm			08/20/19 12:49	1
Ground Water Elevation	**255.98**				ft/msl			08/20/19 12:49	1
Field EH/ORP	**18.6**				millivolts			08/20/19 12:49	1
Oxygen, Dissolved	**0.4**				mg/L			08/20/19 12:49	1
Depth to Water from Top of Casing	**13.06**				ft			08/20/19 12:49	1

Client Sample ID: DUP-GW-03

Date Collected: 08/20/19 12:49
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**		0.0090		mg/L		08/22/19 08:20	08/22/19 20:45	1
Barium	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:45	1
Calcium	**14**		0.15		mg/L		08/22/19 08:20	08/22/19 20:45	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:45	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:45	1
Iron	**0.18**		0.030		mg/L		08/22/19 08:20	08/22/19 20:45	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 20:45	1
Magnesium	**3.2**		0.24		mg/L		08/22/19 08:20	08/22/19 20:45	1
Manganese	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 20:45	1
Potassium	**2.1**		0.20		mg/L		08/22/19 08:20	08/22/19 20:45	1
Sodium	**36**		0.40		mg/L		08/22/19 08:20	08/22/19 20:45	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 20:45	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 20:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.39**		0.25		mg/L		08/27/19 13:37	09/12/19 04:30	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**6.1**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.3**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.57**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**100**		20		mg/L			08/22/19 16:42	2
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:30	1
Nitrate	ND	U	0.050		mg/L as N			08/21/19 18:26	1
Sulfate	**10**		5.0		mg/L			08/27/19 20:53	1
Chloride	**3.0**		0.50		mg/L			08/22/19 17:02	1
Total Dissolved Solids	**150**		5.0		mg/L			08/22/19 08:22	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 12:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**6.8**		4.0		mg/L			08/22/19 13:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.9**				NTU			08/20/19 12:49	1
Temperature	**18.4**				Degrees C			08/20/19 12:49	1
Field pH	**7.39**				SU			08/20/19 12:49	1
Specific Conductance	**265**				umhos/cm			08/20/19 12:49	1
Field EH/ORP	**18.6**				millivolts			08/20/19 12:49	1
Oxygen, Dissolved	**0.4**				mg/L			08/20/19 12:49	1

Client Sample ID: 310C

Date Collected: 08/21/19 11:25
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/24/19 06:35	08/24/19 17:17	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:17	1
Calcium	**22**		0.15		mg/L		08/24/19 06:35	08/24/19 17:17	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:17	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:17	1
Iron	**0.10**		0.030		mg/L		08/24/19 06:35	08/24/19 17:17	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:17	1
Magnesium	**2.3**		0.24		mg/L		08/24/19 06:35	08/24/19 17:17	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:17	1
Potassium	**1.9**		0.20		mg/L		08/24/19 06:35	08/24/19 17:17	1
Sodium	**3.7**		0.40		mg/L		08/24/19 06:35	08/24/19 17:17	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:17	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 17:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 03:56	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.4**				%			09/17/19 22:47	1
Calculated TDS	**72**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.5**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.68**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			08/26/19 21:12	1
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:42	1
Nitrate	**0.24**		0.050		mg/L as N			08/22/19 21:18	1
Sulfate	ND	U	5.0		mg/L			08/28/19 19:37	1
Chloride	**4.2**		0.50		mg/L			08/26/19 21:10	1
Total Dissolved Solids	**110**		5.0		mg/L			08/23/19 08:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 16:38	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/26/19 10:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.1**				NTU			08/21/19 11:25	1
Temperature	**9.5**				Degrees C			08/21/19 11:25	1
Field pH	**8.32**				SU			08/21/19 11:25	1
Specific Conductance	**161**				umhos/cm			08/21/19 11:25	1
Ground Water Elevation	**269.02**				ft/msl			08/21/19 11:25	1
Field EH/ORP	**159.0**				millivolts			08/21/19 11:25	1
Oxygen, Dissolved	**7.5**				mg/L			08/21/19 11:25	1
Depth to Water from Top of Casing	**4.34**				ft			08/21/19 11:25	1

Client Sample ID: 310D

Date Collected: 08/21/19 12:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0091**		0.0090		mg/L		08/24/19 06:35	08/24/19 17:36	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:36	1
Calcium	**19**		0.15		mg/L		08/24/19 06:35	08/24/19 17:36	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:36	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:36	1
Iron	**0.067**		0.030		mg/L		08/24/19 06:35	08/24/19 17:36	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:36	1
Magnesium	**2.1**		0.24		mg/L		08/24/19 06:35	08/24/19 17:36	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:36	1
Potassium	**1.9**		0.20		mg/L		08/24/19 06:35	08/24/19 17:36	1
Sodium	**8.0**		0.40		mg/L		08/24/19 06:35	08/24/19 17:36	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:36	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 17:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:15	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.62**				%			09/17/19 22:47	1
Calculated TDS	**73**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.95**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.40**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**64**		10		mg/L			08/26/19 21:12	1
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:43	1
Nitrate	**0.15**		0.050		mg/L as N			08/22/19 21:19	1
Sulfate	**8.1**		5.0		mg/L			08/28/19 20:00	1
Chloride	**2.9**		0.50		mg/L			08/26/19 21:10	1
Total Dissolved Solids	**150**		5.0		mg/L			08/23/19 08:29	1
Total Dissolved Solids	**69**		5.0		mg/L			08/29/19 08:06	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 16:53	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/26/19 10:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/21/19 12:22	1
Temperature	**18.1**				Degrees C			08/21/19 12:22	1
Field pH	**7.65**				SU			08/21/19 12:22	1
Specific Conductance	**172**				umhos/cm			08/21/19 12:22	1
Ground Water Elevation	**272.10**				ft/msl			08/21/19 12:22	1
Field EH/ORP	**114.0**				millivolts			08/21/19 12:22	1
Oxygen, Dissolved	**10.1**				mg/L			08/21/19 12:22	1
Depth to Water from Top of Casing	**0.60**				ft			08/21/19 12:22	1

Client Sample ID: 620C

Date Collected: 08/21/19 13:07
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.024**		0.0090		mg/L		08/24/19 06:35	08/24/19 17:40	1
Barium	**0.14**		0.0050		mg/L		08/24/19 06:35	08/24/19 17:40	1
Calcium	**20**		0.15		mg/L		08/24/19 06:35	08/24/19 17:40	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:40	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:40	1
Iron	ND	U	0.030		mg/L		08/24/19 06:35	08/24/19 17:40	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:40	1
Magnesium	**5.3**		0.24		mg/L		08/24/19 06:35	08/24/19 17:40	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:40	1
Potassium	**2.9**		0.20		mg/L		08/24/19 06:35	08/24/19 17:40	1
Sodium	**11**		0.40		mg/L		08/24/19 06:35	08/24/19 17:40	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:40	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 17:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:18	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.1**				%			09/17/19 22:47	1
Calculated TDS	**97**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.3**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.68**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**94**		10		mg/L			08/26/19 21:49	1
Ammonia as N	**0.037**		0.020		mg/L as N			08/23/19 08:44	1
Nitrate	ND	U	0.050		mg/L as N			08/22/19 19:38	1
Sulfate	**10**		5.0		mg/L			08/28/19 19:37	1
Chloride	**0.94**		0.50		mg/L			08/26/19 21:10	1
Total Dissolved Solids	**130**		5.0		mg/L			08/23/19 08:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 17:07	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/26/19 10:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/21/19 13:07	1
Temperature	**14.1**				Degrees C			08/21/19 13:07	1
Field pH	**7.9**				SU			08/21/19 13:07	1
Specific Conductance	**191**				umhos/cm			08/21/19 13:07	1
Ground Water Elevation	**250.97**				ft/msl			08/21/19 13:07	1
Field EH/ORP	**8.5**				millivolts			08/21/19 13:07	1
Oxygen, Dissolved	**3.4**				mg/L			08/21/19 13:07	1
Depth to Water from Top of Casing	**10.77**				ft			08/21/19 13:07	1

Client Sample ID: DUP-GW-04

Date Collected: 08/21/19 12:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/24/19 06:35	08/24/19 17:55	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:55	1
Calcium	**18**		0.15		mg/L		08/24/19 06:35	08/24/19 17:55	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:55	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:55	1
Iron	**0.045**		0.030		mg/L		08/24/19 06:35	08/24/19 17:55	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:55	1
Magnesium	**2.0**		0.24		mg/L		08/24/19 06:35	08/24/19 17:55	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:55	1
Potassium	**1.9**		0.20		mg/L		08/24/19 06:35	08/24/19 17:55	1
Sodium	**7.7**		0.40		mg/L		08/24/19 06:35	08/24/19 17:55	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:55	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 17:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 03:37	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.0**				%			09/17/19 22:47	1
Calculated TDS	**72**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.5**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.64**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**65**		10		mg/L			08/26/19 22:00	1
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:45	1
Nitrate	**0.14**		0.050		mg/L as N			08/22/19 21:22	1
Sulfate	**8.1**		5.0		mg/L			08/28/19 20:00	1
Chloride	**3.3**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**110**		5.0		mg/L			08/23/19 08:29	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 17:22	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/21/19 12:22	1
Temperature	**18.1**				Degrees C			08/21/19 12:22	1
Field pH	**7.65**				SU			08/21/19 12:22	1
Specific Conductance	**172**				umhos/cm			08/21/19 12:22	1
Field EH/ORP	**114.0**				millivolts			08/21/19 12:22	1
Oxygen, Dissolved	**10.1**				mg/L			08/21/19 12:22	1

Client Sample ID: W9-1E

Date Collected: 08/21/19 10:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/24/19 06:35	08/24/19 17:59	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:59	1
Calcium	**18**		0.15		mg/L		08/24/19 06:35	08/24/19 17:59	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 17:59	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:59	1
Iron	**0.054**		0.030		mg/L		08/24/19 06:35	08/24/19 17:59	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 17:59	1
Magnesium	**13**		0.24		mg/L		08/24/19 06:35	08/24/19 17:59	1
Manganese	**0.047**		0.010		mg/L		08/24/19 06:35	08/24/19 17:59	1
Potassium	**2.1**		0.20		mg/L		08/24/19 06:35	08/24/19 17:59	1
Sodium	**15**		0.40		mg/L		08/24/19 06:35	08/24/19 17:59	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 17:59	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 17:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:00	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.0**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.49**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			08/26/19 21:51	2
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:46	1
Nitrate	ND	U	0.050		mg/L as N			08/22/19 19:40	1
Sulfate	ND	U	5.0		mg/L			08/28/19 20:14	1
Chloride	**2.6**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**130**		5.0		mg/L			08/23/19 11:42	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 20:40	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/26/19 10:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/21/19 10:22	1
Temperature	**21.3**				Degrees C			08/21/19 10:22	1
Field pH	**7.36**				SU			08/21/19 10:22	1
Specific Conductance	**268**				umhos/cm			08/21/19 10:22	1
Ground Water Elevation	**256.92**				ft/msl			08/21/19 10:22	1
Field EH/ORP	**149.7**				millivolts			08/21/19 10:22	1
Oxygen, Dissolved	**5.2**				mg/L			08/21/19 10:22	1
Depth to Water from Top of Casing	**3.38**				ft			08/21/19 10:22	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W9-2E

Date Collected: 08/21/19 10:18
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/24/19 06:35	08/24/19 18:03	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 18:03	1
Calcium	**18**		0.15		mg/L		08/24/19 06:35	08/24/19 18:03	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 18:03	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 18:03	1
Iron	ND	U	0.030		mg/L		08/24/19 06:35	08/24/19 18:03	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 18:03	1
Magnesium	**14**		0.24		mg/L		08/24/19 06:35	08/24/19 18:03	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 18:03	1
Potassium	**1.8**		0.20		mg/L		08/24/19 06:35	08/24/19 18:03	1
Sodium	**10**		0.40		mg/L		08/24/19 06:35	08/24/19 18:03	1
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 18:03	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 18:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 04:11	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.3**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.85**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.44**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			08/26/19 21:51	2
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:46	1
Nitrate	ND	U	0.050		mg/L as N			08/22/19 19:43	1
Sulfate	ND	U	5.0		mg/L			08/28/19 19:40	1
Chloride	**2.4**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**100**		5.0		mg/L			08/23/19 11:42	1
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 21:08	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/27/19 08:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/21/19 10:18	1
Temperature	**17.7**				Degrees C			08/21/19 10:18	1
Field pH	**7.06**				SU			08/21/19 10:18	1
Specific Conductance	**226**				umhos/cm			08/21/19 10:18	1
Ground Water Elevation	**254.64**				ft/msl			08/21/19 10:18	1
Field EH/ORP	**71.0**				millivolts			08/21/19 10:18	1
Oxygen, Dissolved	**3.5**				mg/L			08/21/19 10:18	1
Depth to Water from Top of Casing	**6.38**				ft			08/21/19 10:18	1

Client Sample ID: 618AR

Date Collected: 08/27/19 13:15
Date Received: 08/28/19 09:15

Lab Sample ID: 480-158239-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/29/19 09:50	08/29/19 21:16	1
Barium	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 21:16	1
Calcium	**41**		0.15		mg/L		08/29/19 09:50	08/29/19 21:16	1
Chromium	ND	U	0.010		mg/L		08/29/19 09:50	08/29/19 21:16	1
Copper	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 21:16	1
Iron	ND	U	0.030		mg/L		08/29/19 09:50	08/29/19 21:16	1
Lead	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 21:16	1
Magnesium	**45**		0.24		mg/L		08/29/19 09:50	08/29/19 21:16	1
Manganese	**0.41**		0.010		mg/L		08/29/19 09:50	08/29/19 21:16	1
Potassium	**2.1**		0.20		mg/L		08/29/19 09:50	08/29/19 21:16	1
Sodium	**20**		0.40		mg/L		08/29/19 09:50	08/29/19 21:16	1
Vanadium	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 21:16	1
Zinc	ND	U	0.020		mg/L		08/29/19 09:50	08/29/19 21:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.3**				%			09/17/19 22:47	1
Calculated TDS	**310**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.51**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**330**		40		mg/L			08/29/19 20:06	4
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 12:14	1
Nitrate	ND	U	0.050		mg/L as N			08/28/19 19:13	1
Chemical Oxygen Demand	ND	U	10		mg/L			09/03/19 13:23	1
Sulfate	**12**		5.0		mg/L			08/30/19 00:10	1
Chloride	**5.6**		0.50		mg/L			08/29/19 20:04	1
Total Dissolved Solids	**330**		5.0		mg/L			08/28/19 14:52	1
Total Organic Carbon	**1.8**		1.0		mg/L			08/29/19 20:02	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/30/19 15:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/27/19 13:15	1
Temperature	**22.1**				Degrees C			08/27/19 13:15	1
Field pH	**7.44**				SU			08/27/19 13:15	1
Specific Conductance	**646**				umhos/cm			08/27/19 13:15	1
Ground Water Elevation	**256.56**				ft/msl			08/27/19 13:15	1
Field EH/ORP	**38.2**				millivolts			08/27/19 13:15	1
Oxygen, Dissolved	**6.0**				mg/L			08/27/19 13:15	1
Depth to Water from Top of Casing	**10.65**				ft			08/27/19 13:15	1

Client Sample ID: 1134B

Date Collected: 08/27/19 15:41
Date Received: 08/28/19 09:15

Lab Sample ID: 480-158239-2

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**		0.0090		mg/L		08/29/19 09:50	08/29/19 21:20	1
Barium	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 21:20	1
Calcium	**4.8**		0.15		mg/L		08/29/19 09:50	08/29/19 21:20	1
Chromium	ND	U	0.010		mg/L		08/29/19 09:50	08/29/19 21:20	1
Copper	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 21:20	1
Iron	ND	U	0.030		mg/L		08/29/19 09:50	08/29/19 21:20	1
Lead	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 21:20	1
Magnesium	**1.0**		0.24		mg/L		08/29/19 09:50	08/29/19 21:20	1
Manganese	ND	U	0.010		mg/L		08/29/19 09:50	08/29/19 21:20	1
Potassium	**1.1**		0.20		mg/L		08/29/19 09:50	08/29/19 21:20	1
Sodium	**46**		0.40		mg/L		08/29/19 09:50	08/29/19 21:20	1
Vanadium	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 21:20	1
Zinc	ND	U	0.020		mg/L		08/29/19 09:50	08/29/19 21:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/19/19 19:18	09/21/19 14:00	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.1**				%			09/17/19 22:47	1
Calculated TDS	**120**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.57**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			08/29/19 20:47	2
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 12:16	1
Nitrate	ND	U	0.050		mg/L as N			08/28/19 19:14	1
Sulfate	**11**		5.0		mg/L			08/30/19 00:10	1
Chloride	**0.80**		0.50		mg/L			08/29/19 20:04	1
Total Dissolved Solids	**28**		5.0		mg/L			08/29/19 09:43	1
Total Dissolved Solids	**130**		5.0		mg/L			09/05/19 10:44	1
Total Organic Carbon	ND	U	1.0		mg/L			08/29/19 20:34	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/30/19 15:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/27/19 15:41	1
Temperature	**9.9**				Degrees C			08/27/19 15:41	1
Field pH	**8.12**				SU			08/27/19 15:41	1
Specific Conductance	**230**				umhos/cm			08/27/19 15:41	1
Ground Water Elevation	**250.90**				ft/msl			08/27/19 15:41	1
Field EH/ORP	**1.6**				millivolts			08/27/19 15:41	1
Oxygen, Dissolved	**1.3**				mg/L			08/27/19 15:41	1
Depth to Water from Top of Casing	**23.99**				ft			08/27/19 15:41	1

Client Sample ID: 1040B

Date Collected: 08/28/19 14:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/03/19 08:26	09/04/19 17:38	1
Barium	**0.0084**		0.0050		mg/L		09/03/19 08:26	09/04/19 17:38	1
Calcium	**20**		0.15		mg/L		09/03/19 08:26	09/04/19 17:38	1
Chromium	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 17:38	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 17:38	1
Iron	ND	U	0.030		mg/L		09/03/19 08:26	09/04/19 17:38	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 17:38	1
Magnesium	**6.4**		0.24		mg/L		09/03/19 08:26	09/04/19 17:38	1
Manganese	**0.097**		0.010		mg/L		09/03/19 08:26	09/04/19 17:38	1
Potassium	**2.2**		0.20		mg/L		09/03/19 08:26	09/04/19 17:38	1
Sodium	**4.7**		0.40		mg/L		09/03/19 08:26	09/04/19 17:38	1
Vanadium	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 17:38	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/04/19 17:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 05:39	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.9**				%			09/17/19 22:47	1
Calculated TDS	**83**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.1**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.64**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**80**		10		mg/L			08/30/19 19:58	1
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 12:17	1
Nitrate	**0.12**		0.050		mg/L as N			08/30/19 05:58	1
Sulfate	**15**		5.0		mg/L			09/04/19 18:51	1
Chloride	**1.9**		0.50		mg/L			08/30/19 19:56	1
Total Dissolved Solids	**93**		5.0		mg/L			09/03/19 11:08	1
Total Organic Carbon	ND	U	1.0		mg/L			08/30/19 23:15	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.0**				NTU			08/28/19 14:56	1
Temperature	**12.0**				Degrees C			08/28/19 14:56	1
Field pH	**6.29**				SU			08/28/19 14:56	1
Specific Conductance	**145**				umhos/cm			08/28/19 14:56	1
Ground Water Elevation	**241.22**				ft/msl			08/28/19 14:56	1
Field EH/ORP	**-11.4**				millivolts			08/28/19 14:56	1
Oxygen, Dissolved	**0.6**				mg/L			08/28/19 14:56	1
Depth to Water from Top of Casing	**11.89**				ft			08/28/19 14:56	1

Client Sample ID: 624B

Date Collected: 08/28/19 14:02
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/03/19 08:26	09/04/19 18:08	1
Barium	**0.026**		0.0050		mg/L		09/03/19 08:26	09/04/19 18:08	1
Calcium	**120**		0.15		mg/L		09/03/19 08:26	09/04/19 18:08	1
Chromium	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 18:08	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 18:08	1
Iron	ND	U	0.030		mg/L		09/03/19 08:26	09/04/19 18:08	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 18:08	1
Magnesium	**19**		0.24		mg/L		09/03/19 08:26	09/04/19 18:08	1
Manganese	**1.2**		0.010		mg/L		09/03/19 08:26	09/04/19 18:08	1
Potassium	**6.2**		0.20		mg/L		09/03/19 08:26	09/04/19 18:08	1
Sodium	**3.8**		0.40		mg/L		09/03/19 08:26	09/04/19 18:08	1
Vanadium	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 18:08	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/04/19 18:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 05:21	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.3**				%			09/17/19 22:47	1
Calculated TDS	**360**				mg/L			09/17/19 22:47	1
TDS Ratio	**0.96**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.63**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**360**		40		mg/L			08/30/19 20:31	4
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 12:18	1
Nitrate	ND	U	0.050		mg/L as N			08/30/19 00:02	1
Chemical Oxygen Demand	ND	U	10		mg/L			09/03/19 13:23	1
Sulfate	**35**		5.0		mg/L			09/03/19 15:19	1
Chloride	**2.3**		0.50		mg/L			08/30/19 19:56	1
Total Dissolved Solids	**350**		5.0		mg/L			09/03/19 11:08	1
Total Organic Carbon	**1.4**		1.0		mg/L			08/30/19 23:31	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.2**				NTU			08/28/19 14:02	1
Temperature	**10.3**				Degrees C			08/28/19 14:02	1
Field pH	**6.63**				SU			08/28/19 14:02	1
Specific Conductance	**553**				umhos/cm			08/28/19 14:02	1
Ground Water Elevation	**240.51**				ft/msl			08/28/19 14:02	1
Field EH/ORP	**-42.1**				millivolts			08/28/19 14:02	1
Oxygen, Dissolved	**0.6**				mg/L			08/28/19 14:02	1
Depth to Water from Top of Casing	**9.03**				ft			08/28/19 14:02	1

Client Sample ID: 626B

Date Collected: 08/28/19 11:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/03/19 08:26	09/04/19 18:12	1
Barium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 18:12	1
Calcium	**9.6**		0.15		mg/L		09/03/19 08:26	09/04/19 18:12	1
Chromium	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 18:12	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 18:12	1
Iron	ND	U	0.030		mg/L		09/03/19 08:26	09/04/19 18:12	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 18:12	1
Magnesium	**1.7**		0.24		mg/L		09/03/19 08:26	09/04/19 18:12	1
Manganese	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 18:12	1
Potassium	**2.0**		0.20		mg/L		09/03/19 08:26	09/04/19 18:12	1
Sodium	**1.5**		0.40		mg/L		09/03/19 08:26	09/04/19 18:12	1
Vanadium	ND	U	0.025		mg/L		09/03/19 08:26	09/04/19 18:12	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/04/19 18:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:08	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.85**				%			09/17/19 22:47	1
Calculated TDS	**37**				mg/L			09/17/19 22:47	1
TDS Ratio	**3.5**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**2.0**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**37**		10		mg/L			08/30/19 19:58	1
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 12:18	1
Nitrate	**0.12**		0.050		mg/L as N			08/30/19 00:15	1
Sulfate	ND	U	5.0		mg/L			09/03/19 15:19	1
Chloride	ND	U	0.50		mg/L			08/30/19 20:04	1
Total Dissolved Solids	ND	U	5.0		mg/L			09/03/19 11:08	1
Total Dissolved Solids	**130**		5.0		mg/L			09/06/19 10:56	1
Total Organic Carbon	ND	U	1.0		mg/L			08/30/19 23:48	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.6**				NTU			08/28/19 11:56	1
Temperature	**19.8**				Degrees C			08/28/19 11:56	1
Field pH	**5.98**				SU			08/28/19 11:56	1
Specific Conductance	**65**				umhos/cm			08/28/19 11:56	1
Ground Water Elevation	**243.74**				ft/msl			08/28/19 11:56	1
Field EH/ORP	**41.0**				millivolts			08/28/19 11:56	1
Oxygen, Dissolved	**1.9**				mg/L			08/28/19 11:56	1
Depth to Water from Top of Casing	**13.24**				ft			08/28/19 11:56	1

Client Sample ID: 620A

Date Collected: 08/30/19 13:41
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158419-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**		0.0090		mg/L		09/04/19 09:46	09/04/19 20:59	1
Barium	**0.023**		0.0050		mg/L		09/04/19 09:46	09/04/19 20:59	1
Calcium	**15**		0.15		mg/L		09/04/19 09:46	09/04/19 20:59	1
Chromium	ND	U	0.010		mg/L		09/04/19 09:46	09/04/19 20:59	1
Copper	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 20:59	1
Iron	ND	U	0.030		mg/L		09/04/19 09:46	09/04/19 20:59	1
Lead	ND	U	0.0050		mg/L		09/04/19 09:46	09/04/19 20:59	1
Magnesium	**2.7**		0.24		mg/L		09/04/19 09:46	09/04/19 20:59	1
Manganese	**0.017**		0.010		mg/L		09/04/19 09:46	09/04/19 20:59	1
Potassium	**2.1**		0.20		mg/L		09/04/19 09:46	09/04/19 20:59	1
Sodium	**12**		0.40		mg/L		09/04/19 09:46	09/04/19 20:59	1
Vanadium	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 20:59	1
Zinc	ND	U	0.020		mg/L		09/04/19 09:46	09/04/19 20:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:19	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-31**				%			09/17/19 22:47	1
Calculated TDS	**110**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.6**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.53**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			09/09/19 17:28	2
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 08:39	1
Nitrate	**0.081**		0.050		mg/L as N			09/04/19 16:01	1
Chemical Oxygen Demand	ND	U	10		mg/L			09/06/19 14:05	1
Sulfate	**21**		5.0		mg/L			09/04/19 18:55	1
Chloride	**3.7**		0.50		mg/L			09/09/19 16:16	1
Total Dissolved Solids	**170**		5.0		mg/L			09/05/19 10:44	1
Total Organic Carbon	ND	U	1.0		mg/L			09/06/19 05:35	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			09/06/19 13:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			08/30/19 13:41	1
Temperature	**20.7**				Degrees C			08/30/19 13:41	1
Field pH	**6.70**				SU			08/30/19 13:41	1
Specific Conductance	**320**				umhos/cm			08/30/19 13:41	1
Ground Water Elevation	**257.59**				ft/msl			08/30/19 13:41	1
Field EH/ORP	**-40.8**				millivolts			08/30/19 13:41	1
Oxygen, Dissolved	**2.3**				mg/L			08/30/19 13:41	1
Depth to Water from Top of Casing	**9.00**				ft			08/30/19 13:41	1

Client Sample ID: 618CR

Date Collected: 08/30/19 12:22
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158419-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/04/19 09:46	09/04/19 21:02	1
Barium	**0.019**		0.0050		mg/L		09/04/19 09:46	09/04/19 21:02	1
Calcium	**18**		0.15		mg/L		09/04/19 09:46	09/04/19 21:02	1
Chromium	ND	U	0.010		mg/L		09/04/19 09:46	09/04/19 21:02	1
Copper	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 21:02	1
Iron	**0.23**		0.030		mg/L		09/04/19 09:46	09/04/19 21:02	1
Lead	ND	U	0.0050		mg/L		09/04/19 09:46	09/04/19 21:02	1
Magnesium	**19**		0.24		mg/L		09/04/19 09:46	09/04/19 21:02	1
Manganese	**0.025**		0.010		mg/L		09/04/19 09:46	09/04/19 21:02	1
Potassium	**1.0**		0.20		mg/L		09/04/19 09:46	09/04/19 21:02	1
Sodium	**14**		0.40		mg/L		09/04/19 09:46	09/04/19 21:02	1
Vanadium	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 21:02	1
Zinc	ND	U	0.020		mg/L		09/04/19 09:46	09/04/19 21:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:22	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**34**				%			09/17/19 22:47	1
Calculated TDS	**90**				mg/L			09/17/19 22:47	1
TDS Ratio	**1.0**				NONE			09/17/19 22:47	1
TDS to Conductivity Ratio	**0.61**				NONE			09/17/19 22:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**61**		10		mg/L			09/09/19 16:18	1
Ammonia as N	ND	U	0.020		mg/L as N			09/06/19 08:39	1
Nitrate	ND	U	0.050		mg/L as N			09/04/19 15:53	1
Sulfate	**13**		5.0		mg/L			09/04/19 19:32	1
Chloride	**1.3**		0.50		mg/L			09/09/19 16:16	1
Total Dissolved Solids	**90**		5.0		mg/L			09/05/19 10:44	1
Total Organic Carbon	ND	U	1.0		mg/L			09/06/19 05:50	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			09/04/19 11:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.8**				NTU			08/30/19 12:22	1
Temperature	**11.6**				Degrees C			08/30/19 12:22	1
Field pH	**8.11**				SU			08/30/19 12:22	1
Specific Conductance	**148**				umhos/cm			08/30/19 12:22	1
Ground Water Elevation	**250.95**				ft/msl			08/30/19 12:22	1
Field EH/ORP	**-51.3**				millivolts			08/30/19 12:22	1
Oxygen, Dissolved	**2.1**				mg/L			08/30/19 12:22	1
Depth to Water from Top of Casing	**16.17**				ft			08/30/19 12:22	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-485669/1-A
Matrix: Water
Analysis Batch: 486051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485669

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/07/19 07:45	08/07/19 18:36	1
Barium	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 18:36	1
Calcium	ND	U	0.15		mg/L		08/07/19 07:45	08/07/19 18:36	1
Chromium	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 18:36	1
Copper	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 18:36	1
Magnesium	ND	U	0.24		mg/L		08/07/19 07:45	08/07/19 18:36	1
Manganese	ND	U	0.010		mg/L		08/07/19 07:45	08/07/19 18:36	1
Potassium	ND	U	0.20		mg/L		08/07/19 07:45	08/07/19 18:36	1
Lead	ND	U	0.0050		mg/L		08/07/19 07:45	08/07/19 18:36	1
Sodium	ND	U	0.40		mg/L		08/07/19 07:45	08/07/19 18:36	1
Vanadium	ND	U	0.025		mg/L		08/07/19 07:45	08/07/19 18:36	1
Zinc	ND	U	0.020		mg/L		08/07/19 07:45	08/07/19 18:36	1

Lab Sample ID: MB 480-485669/1-A
Matrix: Water
Analysis Batch: 486193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485669

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030		mg/L		08/07/19 07:45	08/08/19 13:39	1

Lab Sample ID: LCS 480-485669/2-A
Matrix: Water
Analysis Batch: 486051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.195		mg/L		97	80 - 120		
Barium			0.200	0.201		mg/L		101	80 - 120		
Calcium			10.0	9.64		mg/L		96	80 - 120		
Chromium			0.200	0.197		mg/L		98	80 - 120		
Copper			0.200	0.197		mg/L		99	80 - 120		
Magnesium			10.0	9.65		mg/L		97	80 - 120		
Manganese			0.200	0.197		mg/L		99	80 - 120		
Potassium			10.0	10.2		mg/L		102	80 - 120		
Lead			0.200	0.191		mg/L		96	80 - 120		
Sodium			10.0	9.41		mg/L		94	80 - 120		
Vanadium			0.200	0.195		mg/L		97	80 - 120		
Zinc			0.200	0.204		mg/L		102	80 - 120		

Lab Sample ID: LCS 480-485669/2-A
Matrix: Water
Analysis Batch: 486193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	9.99		mg/L		100	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-485919/1-A
Matrix: Water
Analysis Batch: 486879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485919

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:13	08/13/19 12:27	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 12:27	1
Calcium	ND	U	0.15		mg/L		08/12/19 09:13	08/13/19 12:27	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 12:27	1
Copper	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 12:27	1
Iron	ND	U	0.030		mg/L		08/12/19 09:13	08/13/19 12:27	1
Magnesium	ND	U	0.24		mg/L		08/12/19 09:13	08/13/19 12:27	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:13	08/13/19 12:27	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:13	08/13/19 12:27	1
Sodium	ND	U	0.40		mg/L		08/12/19 09:13	08/13/19 12:27	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:13	08/13/19 12:27	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:13	08/13/19 12:27	1

Lab Sample ID: MB 480-485919/1-A
Matrix: Water
Analysis Batch: 487130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 485919

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND	U	0.20		mg/L		08/12/19 09:13	08/14/19 12:35	1

Lab Sample ID: LCS 480-485919/2-A
Matrix: Water
Analysis Batch: 486879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485919

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.201		mg/L		101	80 - 120		
Barium			0.200	0.206		mg/L		103	80 - 120		
Calcium			10.0	10.2		mg/L		102	80 - 120		
Chromium			0.200	0.206		mg/L		103	80 - 120		
Copper			0.200	0.201		mg/L		101	80 - 120		
Iron			10.0	10.3		mg/L		103	80 - 120		
Magnesium			10.0	10.1		mg/L		101	80 - 120		
Manganese			0.200	0.204		mg/L		102	80 - 120		
Lead			0.200	0.196		mg/L		98	80 - 120		
Sodium			10.0	9.51		mg/L		95	80 - 120		
Vanadium			0.200	0.204		mg/L		102	80 - 120		
Zinc			0.200	0.210		mg/L		105	80 - 120		

Lab Sample ID: LCS 480-485919/2-A
Matrix: Water
Analysis Batch: 487130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 485919

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			10.0	9.60		mg/L		96	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-486344/1-A
Matrix: Water
Analysis Batch: 486688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486344

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/12/19 09:10	08/12/19 19:52	1
Barium	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 19:52	1
Calcium	ND	U	0.15		mg/L		08/12/19 09:10	08/12/19 19:52	1
Chromium	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 19:52	1
Copper	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 19:52	1
Iron	ND	U	0.030		mg/L		08/12/19 09:10	08/12/19 19:52	1
Magnesium	ND	U	0.24		mg/L		08/12/19 09:10	08/12/19 19:52	1
Manganese	ND	U	0.010		mg/L		08/12/19 09:10	08/12/19 19:52	1
Potassium	ND	U	0.20		mg/L		08/12/19 09:10	08/12/19 19:52	1
Lead	ND	U	0.0050		mg/L		08/12/19 09:10	08/12/19 19:52	1
Sodium	ND	U	0.40		mg/L		08/12/19 09:10	08/12/19 19:52	1
Vanadium	ND	U	0.025		mg/L		08/12/19 09:10	08/12/19 19:52	1
Zinc	ND	U	0.020		mg/L		08/12/19 09:10	08/12/19 19:52	1

Lab Sample ID: LCS 480-486344/2-A
Matrix: Water
Analysis Batch: 486688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.199		mg/L		99	80 - 120		
Barium			0.200	0.206		mg/L		103	80 - 120		
Calcium			10.0	9.80		mg/L		98	80 - 120		
Chromium			0.200	0.200		mg/L		100	80 - 120		
Copper			0.200	0.203		mg/L		101	80 - 120		
Iron			10.0	9.73		mg/L		97	80 - 120		
Magnesium			10.0	9.69		mg/L		97	80 - 120		
Manganese			0.200	0.196		mg/L		98	80 - 120		
Potassium			10.0	9.62		mg/L		96	80 - 120		
Lead			0.200	0.196		mg/L		98	80 - 120		
Sodium			10.0	9.40		mg/L		94	80 - 120		
Vanadium			0.200	0.202		mg/L		101	80 - 120		
Zinc			0.200	0.206		mg/L		103	80 - 120		

Lab Sample ID: 480-157327-1 MS
Matrix: Ground Water
Analysis Batch: 486688

Client Sample ID: 101C
Prep Type: Total/NA
Prep Batch: 486344

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.021		0.200	0.203		mg/L		91	75 - 125		
Barium	ND	U	0.200	0.191		mg/L		95	75 - 125		
Calcium	16		10.0	24.2		mg/L		78	75 - 125		
Chromium	ND	U	0.200	0.184		mg/L		92	75 - 125		
Copper	ND	U	0.200	0.187		mg/L		93	75 - 125		
Iron	ND	U	10.0	8.95		mg/L		89	75 - 125		
Magnesium	3.0		10.0	11.7		mg/L		87	75 - 125		
Manganese	ND	U	0.200	0.183		mg/L		91	75 - 125		
Potassium	3.1		10.0	11.9		mg/L		88	75 - 125		
Lead	ND	U	0.200	0.179		mg/L		90	75 - 125		
Sodium	8.5		10.0	16.5		mg/L		80	75 - 125		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-157327-1 MS
Matrix: Ground Water
Analysis Batch: 486688

Client Sample ID: 101C
Prep Type: Total/NA
Prep Batch: 486344

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND	U	0.200	0.188		mg/L		94	75 - 125
Zinc	ND	U	0.200	0.191		mg/L		94	75 - 125

Lab Sample ID: 480-157327-1 MSD
Matrix: Ground Water
Analysis Batch: 486688

Client Sample ID: 101C
Prep Type: Total/NA
Prep Batch: 486344

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.021		0.200	0.208		mg/L		94	75 - 125	2	20
Barium	ND	U	0.200	0.196		mg/L		97	75 - 125	3	20
Calcium	16		10.0	24.6		mg/L		81	75 - 125	2	20
Chromium	ND	U	0.200	0.186		mg/L		93	75 - 125	1	20
Copper	ND	U	0.200	0.192		mg/L		96	75 - 125	3	20
Iron	ND	U	10.0	9.14		mg/L		91	75 - 125	2	20
Magnesium	3.0		10.0	11.9		mg/L		89	75 - 125	1	20
Manganese	ND	U	0.200	0.186		mg/L		92	75 - 125	2	20
Potassium	3.1		10.0	12.2		mg/L		91	75 - 125	2	20
Lead	ND	U	0.200	0.183		mg/L		92	75 - 125	2	20
Sodium	8.5		10.0	16.9		mg/L		84	75 - 125	2	20
Vanadium	ND	U	0.200	0.191		mg/L		95	75 - 125	2	20
Zinc	ND	U	0.200	0.194		mg/L		96	75 - 125	1	20

Lab Sample ID: MB 480-486630/1-A
Matrix: Water
Analysis Batch: 486887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486630

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/13/19 08:03	08/13/19 21:30	1
Barium	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 21:30	1
Calcium	ND	U	0.15		mg/L		08/13/19 08:03	08/13/19 21:30	1
Chromium	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 21:30	1
Copper	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 21:30	1
Iron	ND	U	0.030		mg/L		08/13/19 08:03	08/13/19 21:30	1
Magnesium	ND	U	0.24		mg/L		08/13/19 08:03	08/13/19 21:30	1
Manganese	ND	U	0.010		mg/L		08/13/19 08:03	08/13/19 21:30	1
Potassium	ND	U	0.20		mg/L		08/13/19 08:03	08/13/19 21:30	1
Lead	ND	U	0.0050		mg/L		08/13/19 08:03	08/13/19 21:30	1
Sodium	ND	U	0.40		mg/L		08/13/19 08:03	08/13/19 21:30	1
Vanadium	ND	U	0.025		mg/L		08/13/19 08:03	08/13/19 21:30	1
Zinc	ND	U	0.020		mg/L		08/13/19 08:03	08/13/19 21:30	1

Lab Sample ID: LCS 480-486630/2-A
Matrix: Water
Analysis Batch: 486887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.210		mg/L		105	80 - 120
Barium	0.200	0.218		mg/L		109	80 - 120
Calcium	10.0	10.8		mg/L		108	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-486630/2-A
Matrix: Water
Analysis Batch: 486887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.212		mg/L		106	80 - 120
Copper	0.200	0.219		mg/L		109	80 - 120
Iron	10.0	10.4		mg/L		104	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120
Lead	0.200	0.207		mg/L		104	80 - 120
Sodium	10.0	10.0		mg/L		100	80 - 120
Vanadium	0.200	0.213		mg/L		107	80 - 120
Zinc	0.200	0.222		mg/L		111	80 - 120

Lab Sample ID: 480-157453-1 MS
Matrix: Ground Water
Analysis Batch: 486887

Client Sample ID: 107BR
Prep Type: Total/NA
Prep Batch: 486630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	0.200	0.214		mg/L		103	75 - 125
Barium	0.051		0.200	0.265		mg/L		107	75 - 125
Calcium	160		10.0	172		mg/L		132	75 - 125
Chromium	ND	U	0.200	0.205		mg/L		102	75 - 125
Copper	ND	U	0.200	0.211		mg/L		106	75 - 125
Iron	4.7		10.0	14.9		mg/L		102	75 - 125
Magnesium	15		10.0	24.8		mg/L		102	75 - 125
Manganese	2.3		0.200	2.53		mg/L		125	75 - 125
Potassium	7.4		10.0	18.0		mg/L		106	75 - 125
Lead	ND	U	0.200	0.203		mg/L		102	75 - 125
Sodium	5.2		10.0	15.3		mg/L		101	75 - 125
Vanadium	ND	U	0.200	0.209		mg/L		104	75 - 125
Zinc	ND	U	0.200	0.211		mg/L		103	75 - 125

Lab Sample ID: 480-157453-1 MSD
Matrix: Ground Water
Analysis Batch: 486887

Client Sample ID: 107BR
Prep Type: Total/NA
Prep Batch: 486630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.211		mg/L		102	75 - 125	1	20
Barium	0.051		0.200	0.257		mg/L		103	75 - 125	3	20
Calcium	160		10.0	166		mg/L		71	75 - 125	4	20
Chromium	ND	U	0.200	0.199		mg/L		100	75 - 125	3	20
Copper	ND	U	0.200	0.204		mg/L		102	75 - 125	4	20
Iron	4.7		10.0	14.4		mg/L		97	75 - 125	3	20
Magnesium	15		10.0	24.1		mg/L		95	75 - 125	3	20
Manganese	2.3		0.200	2.46		mg/L		87	75 - 125	3	20
Potassium	7.4		10.0	17.5		mg/L		101	75 - 125	3	20
Lead	ND	U	0.200	0.200		mg/L		100	75 - 125	2	20
Sodium	5.2		10.0	14.9		mg/L		97	75 - 125	3	20
Vanadium	ND	U	0.200	0.204		mg/L		102	75 - 125	2	20
Zinc	ND	U	0.200	0.205		mg/L		100	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-488147/1-A
Matrix: Water
Analysis Batch: 488539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488147

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 06:43	08/22/19 14:55	1
Barium	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 14:55	1
Calcium	ND	U	0.15		mg/L		08/22/19 06:43	08/22/19 14:55	1
Chromium	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 14:55	1
Copper	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 14:55	1
Iron	ND	U	0.030		mg/L		08/22/19 06:43	08/22/19 14:55	1
Magnesium	ND	U	0.24		mg/L		08/22/19 06:43	08/22/19 14:55	1
Manganese	ND	U	0.010		mg/L		08/22/19 06:43	08/22/19 14:55	1
Potassium	ND	U	0.20		mg/L		08/22/19 06:43	08/22/19 14:55	1
Lead	ND	U	0.0050		mg/L		08/22/19 06:43	08/22/19 14:55	1
Vanadium	ND	U	0.025		mg/L		08/22/19 06:43	08/22/19 14:55	1
Zinc	ND	U	0.020		mg/L		08/22/19 06:43	08/22/19 14:55	1

Lab Sample ID: MB 480-488147/1-A
Matrix: Water
Analysis Batch: 488645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488147

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND	U	0.40		mg/L		08/22/19 06:43	08/23/19 12:23	1

Lab Sample ID: LCS 480-488147/2-A
Matrix: Water
Analysis Batch: 488539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.199		mg/L		100	80 - 120		
Barium			0.200	0.205		mg/L		103	80 - 120		
Calcium			10.0	9.43		mg/L		94	80 - 120		
Chromium			0.200	0.199		mg/L		100	80 - 120		
Copper			0.200	0.194		mg/L		97	80 - 120		
Iron			10.0	10.2		mg/L		102	80 - 120		
Magnesium			10.0	9.95		mg/L		100	80 - 120		
Manganese			0.200	0.198		mg/L		99	80 - 120		
Potassium			10.0	10.2		mg/L		102	80 - 120		
Lead			0.200	0.189		mg/L		95	80 - 120		
Vanadium			0.200	0.198		mg/L		99	80 - 120		
Zinc			0.200	0.200		mg/L		100	80 - 120		

Lab Sample ID: LCS 480-488147/2-A
Matrix: Water
Analysis Batch: 488645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sodium			10.0	9.46		mg/L		94	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-488192/1-A
Matrix: Water
Analysis Batch: 488533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488192

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/22/19 08:20	08/22/19 19:29	1
Barium	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 19:29	1
Calcium	ND	U	0.15		mg/L		08/22/19 08:20	08/22/19 19:29	1
Chromium	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 19:29	1
Copper	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 19:29	1
Iron	ND	U	0.030		mg/L		08/22/19 08:20	08/22/19 19:29	1
Magnesium	ND	U	0.24		mg/L		08/22/19 08:20	08/22/19 19:29	1
Manganese	ND	U	0.010		mg/L		08/22/19 08:20	08/22/19 19:29	1
Potassium	ND	U	0.20		mg/L		08/22/19 08:20	08/22/19 19:29	1
Lead	ND	U	0.0050		mg/L		08/22/19 08:20	08/22/19 19:29	1
Sodium	ND	U	0.40		mg/L		08/22/19 08:20	08/22/19 19:29	1
Vanadium	ND	U	0.025		mg/L		08/22/19 08:20	08/22/19 19:29	1
Zinc	ND	U	0.020		mg/L		08/22/19 08:20	08/22/19 19:29	1

Lab Sample ID: LCS 480-488192/2-A
Matrix: Water
Analysis Batch: 488533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.200		mg/L		100	80 - 120
Barium	0.200	0.208		mg/L		104	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.200	0.195		mg/L		98	80 - 120
Iron	10.0	10.1		mg/L		101	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120
Potassium	10.0	9.47		mg/L		95	80 - 120
Lead	0.200	0.191		mg/L		95	80 - 120
Sodium	10.0	9.46		mg/L		94	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.208		mg/L		104	80 - 120

Lab Sample ID: MB 480-488416/1-A
Matrix: Water
Analysis Batch: 488724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488416

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/24/19 06:35	08/24/19 16:54	1
Barium	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 16:54	1
Calcium	ND	U	0.15		mg/L		08/24/19 06:35	08/24/19 16:54	1
Chromium	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 16:54	1
Copper	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 16:54	1
Iron	ND	U	0.030		mg/L		08/24/19 06:35	08/24/19 16:54	1
Magnesium	ND	U	0.24		mg/L		08/24/19 06:35	08/24/19 16:54	1
Manganese	ND	U	0.010		mg/L		08/24/19 06:35	08/24/19 16:54	1
Potassium	ND	U	0.20		mg/L		08/24/19 06:35	08/24/19 16:54	1
Lead	ND	U	0.0050		mg/L		08/24/19 06:35	08/24/19 16:54	1
Sodium	ND	U	0.40		mg/L		08/24/19 06:35	08/24/19 16:54	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-488416/1-A
Matrix: Water
Analysis Batch: 488724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488416

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND	U	0.025		mg/L		08/24/19 06:35	08/24/19 16:54	1
Zinc	ND	U	0.020		mg/L		08/24/19 06:35	08/24/19 16:54	1

Lab Sample ID: LCS 480-488416/2-A
Matrix: Water
Analysis Batch: 488724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488416

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.198		mg/L		99	80 - 120		
Barium			0.200	0.207		mg/L		103	80 - 120		
Calcium			10.0	9.43		mg/L		94	80 - 120		
Chromium			0.200	0.197		mg/L		98	80 - 120		
Copper			0.200	0.187		mg/L		94	80 - 120		
Iron			10.0	9.75		mg/L		98	80 - 120		
Magnesium			10.0	9.75		mg/L		97	80 - 120		
Manganese			0.200	0.195		mg/L		98	80 - 120		
Potassium			10.0	9.13		mg/L		91	80 - 120		
Lead			0.200	0.184		mg/L		92	80 - 120		
Sodium			10.0	9.22		mg/L		92	80 - 120		
Vanadium			0.200	0.189		mg/L		94	80 - 120		
Zinc			0.200	0.197		mg/L		98	80 - 120		

Lab Sample ID: LCSD 480-488416/3-A
Matrix: Water
Analysis Batch: 488724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488416

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			0.200	0.194		mg/L		97	80 - 120	2	20
Barium			0.200	0.206		mg/L		103	80 - 120	0	20
Calcium			10.0	9.45		mg/L		95	80 - 120	0	20
Chromium			0.200	0.198		mg/L		99	80 - 120	1	20
Copper			0.200	0.188		mg/L		94	80 - 120	0	20
Iron			10.0	9.73		mg/L		97	80 - 120	0	20
Magnesium			10.0	9.71		mg/L		97	80 - 120	0	20
Manganese			0.200	0.195		mg/L		97	80 - 120	0	20
Potassium			10.0	9.02		mg/L		90	80 - 120	1	20
Lead			0.200	0.185		mg/L		92	80 - 120	0	20
Sodium			10.0	9.19		mg/L		92	80 - 120	0	20
Vanadium			0.200	0.187		mg/L		94	80 - 120	1	20
Zinc			0.200	0.199		mg/L		100	80 - 120	1	20

Lab Sample ID: 480-157992-1 MS
Matrix: Ground Water
Analysis Batch: 488724

Client Sample ID: 310C
Prep Type: Total/NA
Prep Batch: 488416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND	U	0.200	0.200		mg/L		100	75 - 125		
Barium	ND	U	0.200	0.212		mg/L		105	75 - 125		
Calcium	22		10.0	31.7		mg/L		98	75 - 125		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-157992-1 MS
Matrix: Ground Water
Analysis Batch: 488724

Client Sample ID: 310C
Prep Type: Total/NA
Prep Batch: 488416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND	U	0.200	0.201		mg/L		100	75 - 125
Copper	ND	U	0.200	0.189		mg/L		95	75 - 125
Iron	0.10		10.0	9.84		mg/L		97	75 - 125
Magnesium	2.3		10.0	12.1		mg/L		98	75 - 125
Manganese	ND	U	0.200	0.195		mg/L		96	75 - 125
Potassium	1.9		10.0	11.1		mg/L		93	75 - 125
Lead	ND	U	0.200	0.188		mg/L		94	75 - 125
Sodium	3.7		10.0	13.2		mg/L		95	75 - 125
Vanadium	ND	U	0.200	0.189		mg/L		95	75 - 125
Zinc	ND	U	0.200	0.201		mg/L		99	75 - 125

Lab Sample ID: 480-157992-1 MSD
Matrix: Ground Water
Analysis Batch: 488724

Client Sample ID: 310C
Prep Type: Total/NA
Prep Batch: 488416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.201		mg/L		101	75 - 125	0	20
Barium	ND	U	0.200	0.210		mg/L		104	75 - 125	1	20
Calcium	22		10.0	31.4		mg/L		96	75 - 125	1	20
Chromium	ND	U	0.200	0.201		mg/L		100	75 - 125	0	20
Copper	ND	U	0.200	0.190		mg/L		95	75 - 125	1	20
Iron	0.10		10.0	9.79		mg/L		97	75 - 125	0	20
Magnesium	2.3		10.0	12.1		mg/L		98	75 - 125	0	20
Manganese	ND	U	0.200	0.194		mg/L		96	75 - 125	0	20
Potassium	1.9		10.0	11.1		mg/L		92	75 - 125	1	20
Lead	ND	U	0.200	0.187		mg/L		94	75 - 125	1	20
Sodium	3.7		10.0	13.1		mg/L		94	75 - 125	1	20
Vanadium	ND	U	0.200	0.190		mg/L		95	75 - 125	1	20
Zinc	ND	U	0.200	0.200		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 480-489309/1-A
Matrix: Water
Analysis Batch: 489674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489309

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		08/29/19 09:50	08/29/19 20:03	1
Barium	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 20:03	1
Calcium	ND	U	0.15		mg/L		08/29/19 09:50	08/29/19 20:03	1
Chromium	ND	U	0.010		mg/L		08/29/19 09:50	08/29/19 20:03	1
Copper	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 20:03	1
Iron	ND	U	0.030		mg/L		08/29/19 09:50	08/29/19 20:03	1
Magnesium	ND	U	0.24		mg/L		08/29/19 09:50	08/29/19 20:03	1
Manganese	ND	U	0.010		mg/L		08/29/19 09:50	08/29/19 20:03	1
Potassium	ND	U	0.20		mg/L		08/29/19 09:50	08/29/19 20:03	1
Lead	ND	U	0.0050		mg/L		08/29/19 09:50	08/29/19 20:03	1
Sodium	ND	U	0.40		mg/L		08/29/19 09:50	08/29/19 20:03	1
Vanadium	ND	U	0.025		mg/L		08/29/19 09:50	08/29/19 20:03	1
Zinc	ND	U	0.020		mg/L		08/29/19 09:50	08/29/19 20:03	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-489309/2-A
Matrix: Water
Analysis Batch: 489674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.197		mg/L		98	80 - 120
Barium	0.200	0.197		mg/L		99	80 - 120
Calcium	10.0	9.46		mg/L		95	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.191		mg/L		95	80 - 120
Iron	10.0	9.86		mg/L		99	80 - 120
Magnesium	10.0	9.62		mg/L		96	80 - 120
Manganese	0.200	0.194		mg/L		97	80 - 120
Potassium	10.0	9.22		mg/L		92	80 - 120
Lead	0.200	0.181		mg/L		90	80 - 120
Sodium	10.0	9.24		mg/L		92	80 - 120
Vanadium	0.200	0.190		mg/L		95	80 - 120
Zinc	0.200	0.195		mg/L		98	80 - 120

Lab Sample ID: MB 480-489712/1-A
Matrix: Water
Analysis Batch: 490285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489712

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		09/03/19 08:26	09/04/19 17:30	1
Barium	ND	U	0.0050	mg/L		09/03/19 08:26	09/04/19 17:30	1
Calcium	ND	U	0.15	mg/L		09/03/19 08:26	09/04/19 17:30	1
Chromium	ND	U	0.010	mg/L		09/03/19 08:26	09/04/19 17:30	1
Copper	ND	U	0.025	mg/L		09/03/19 08:26	09/04/19 17:30	1
Iron	ND	U	0.030	mg/L		09/03/19 08:26	09/04/19 17:30	1
Magnesium	ND	U	0.24	mg/L		09/03/19 08:26	09/04/19 17:30	1
Manganese	ND	U	0.010	mg/L		09/03/19 08:26	09/04/19 17:30	1
Potassium	ND	U	0.20	mg/L		09/03/19 08:26	09/04/19 17:30	1
Lead	ND	U	0.0050	mg/L		09/03/19 08:26	09/04/19 17:30	1
Sodium	ND	U	0.40	mg/L		09/03/19 08:26	09/04/19 17:30	1
Vanadium	ND	U	0.025	mg/L		09/03/19 08:26	09/04/19 17:30	1
Zinc	ND	U	0.020	mg/L		09/03/19 08:26	09/04/19 17:30	1

Lab Sample ID: LCS 480-489712/2-A
Matrix: Water
Analysis Batch: 490285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.188		mg/L		94	80 - 120
Barium	0.200	0.210		mg/L		105	80 - 120
Calcium	10.0	9.88		mg/L		99	80 - 120
Chromium	0.200	0.209		mg/L		104	80 - 120
Copper	0.200	0.188		mg/L		94	80 - 120
Iron	10.0	9.66		mg/L		97	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Manganese	0.200	0.195		mg/L		98	80 - 120
Potassium	10.0	9.08		mg/L		91	80 - 120
Lead	0.200	0.189		mg/L		94	80 - 120
Sodium	10.0	9.15		mg/L		91	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-489712/2-A
Matrix: Water
Analysis Batch: 490285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.209		mg/L		104	80 - 120

Lab Sample ID: 480-158314-1 MS
Matrix: Ground Water
Analysis Batch: 490285

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 489712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	0.200	0.188		mg/L		94	75 - 125
Barium	0.0084		0.200	0.211		mg/L		101	75 - 125
Calcium	20		10.0	29.2		mg/L		94	75 - 125
Chromium	ND	U	0.200	0.202		mg/L		101	75 - 125
Copper	ND	U	0.200	0.187		mg/L		94	75 - 125
Iron	ND	U	10.0	9.52		mg/L		95	75 - 125
Magnesium	6.4		10.0	16.3		mg/L		99	75 - 125
Manganese	0.097		0.200	0.287		mg/L		95	75 - 125
Potassium	2.2		10.0	11.3		mg/L		90	75 - 125
Lead	ND	U	0.200	0.187		mg/L		93	75 - 125
Sodium	4.7		10.0	13.7		mg/L		90	75 - 125
Vanadium	ND	U	0.200	0.194		mg/L		97	75 - 125
Zinc	ND	U	0.200	0.206		mg/L		100	75 - 125

Lab Sample ID: 480-158314-1 MSD
Matrix: Ground Water
Analysis Batch: 490285

Client Sample ID: 1040B
Prep Type: Total/NA
Prep Batch: 489712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.192		mg/L		96	75 - 125	2	20
Barium	0.0084		0.200	0.208		mg/L		100	75 - 125	1	20
Calcium	20		10.0	28.4		mg/L		86	75 - 125	3	20
Chromium	ND	U	0.200	0.200		mg/L		100	75 - 125	1	20
Copper	ND	U	0.200	0.187		mg/L		93	75 - 125	0	20
Iron	ND	U	10.0	9.44		mg/L		94	75 - 125	1	20
Magnesium	6.4		10.0	15.9		mg/L		95	75 - 125	2	20
Manganese	0.097		0.200	0.283		mg/L		93	75 - 125	2	20
Potassium	2.2		10.0	11.1		mg/L		89	75 - 125	1	20
Lead	ND	U	0.200	0.187		mg/L		94	75 - 125	0	20
Sodium	4.7		10.0	13.3		mg/L		86	75 - 125	3	20
Vanadium	ND	U	0.200	0.194		mg/L		97	75 - 125	0	20
Zinc	ND	U	0.200	0.204		mg/L		99	75 - 125	1	20

Lab Sample ID: MB 480-489960/1-A
Matrix: Water
Analysis Batch: 490293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489960

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/04/19 09:46	09/04/19 19:16	1
Barium	ND	U	0.0050		mg/L		09/04/19 09:46	09/04/19 19:16	1
Calcium	ND	U	0.15		mg/L		09/04/19 09:46	09/04/19 19:16	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-489960/1-A
Matrix: Water
Analysis Batch: 490293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489960

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	U	0.010		mg/L		09/04/19 09:46	09/04/19 19:16	1
Copper	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 19:16	1
Iron	ND	U	0.030		mg/L		09/04/19 09:46	09/04/19 19:16	1
Magnesium	ND	U	0.24		mg/L		09/04/19 09:46	09/04/19 19:16	1
Manganese	ND	U	0.010		mg/L		09/04/19 09:46	09/04/19 19:16	1
Potassium	ND	U	0.20		mg/L		09/04/19 09:46	09/04/19 19:16	1
Lead	ND	U	0.0050		mg/L		09/04/19 09:46	09/04/19 19:16	1
Sodium	ND	U	0.40		mg/L		09/04/19 09:46	09/04/19 19:16	1
Vanadium	ND	U	0.025		mg/L		09/04/19 09:46	09/04/19 19:16	1
Zinc	ND	U	0.020		mg/L		09/04/19 09:46	09/04/19 19:16	1

Lab Sample ID: LCS 480-489960/2-A
Matrix: Water
Analysis Batch: 490293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489960

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.197		mg/L		98	80 - 120		
Barium			0.200	0.199		mg/L		100	80 - 120		
Calcium			10.0	10.2		mg/L		102	80 - 120		
Chromium			0.200	0.194		mg/L		97	80 - 120		
Copper			0.200	0.184		mg/L		92	80 - 120		
Iron			10.0	10.2		mg/L		102	80 - 120		
Magnesium			10.0	9.85		mg/L		99	80 - 120		
Manganese			0.200	0.194		mg/L		97	80 - 120		
Potassium			10.0	9.27		mg/L		93	80 - 120		
Lead			0.200	0.180		mg/L		90	80 - 120		
Sodium			10.0	9.29		mg/L		93	80 - 120		
Vanadium			0.200	0.192		mg/L		96	80 - 120		
Zinc			0.200	0.195		mg/L		98	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-582196/1-A
Matrix: Water
Analysis Batch: 582487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582196

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/14/19 13:47	08/16/19 00:33	1

Lab Sample ID: LCS 680-582196/2-A
Matrix: Water
Analysis Batch: 582487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582196

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.38		mg/L		108	80 - 120		

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-583186/1-A
Matrix: Water
Analysis Batch: 583656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583186

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/20/19 17:58	08/23/19 09:26	1

Lab Sample ID: LCS 680-583186/2-A
Matrix: Water
Analysis Batch: 583656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.10		mg/L		102	80 - 120		

Lab Sample ID: MB 680-583282/1-A
Matrix: Water
Analysis Batch: 583634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583282

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/21/19 12:12	08/22/19 18:32	1

Lab Sample ID: LCS 680-583282/2-A
Matrix: Water
Analysis Batch: 583634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.26		mg/L		105	80 - 120		

Lab Sample ID: MB 680-584125/1-A
Matrix: Water
Analysis Batch: 584616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584125

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 12:22	08/29/19 17:15	1

Lab Sample ID: LCS 680-584125/2-A
Matrix: Water
Analysis Batch: 584616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.13		mg/L		103	80 - 120		

Lab Sample ID: MB 680-584143/1-A
Matrix: Water
Analysis Batch: 585860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584143

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		08/27/19 13:37	09/12/19 03:30	1

Lab Sample ID: LCS 680-584143/2-A
Matrix: Water
Analysis Batch: 585860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.30		mg/L		106	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 480-157992-4 MS
Matrix: Ground Water
Analysis Batch: 585860

Client Sample ID: DUP-GW-04
Prep Type: Total/NA
Prep Batch: 584143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND	U	5.00	5.22		mg/L		104	75 - 125

Lab Sample ID: 480-157992-4 MSD
Matrix: Ground Water
Analysis Batch: 585860

Client Sample ID: DUP-GW-04
Prep Type: Total/NA
Prep Batch: 584143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.33		mg/L		106	75 - 125	2	20

Lab Sample ID: MB 680-585028/1-A
Matrix: Water
Analysis Batch: 585491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585028

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		09/06/19 12:00	09/09/19 14:06	1

Lab Sample ID: LCS 680-585028/2-A
Matrix: Water
Analysis Batch: 585491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	4.99		mg/L		100	80 - 120

Lab Sample ID: 480-158314-2 MS
Matrix: Ground Water
Analysis Batch: 586051

Client Sample ID: 624B
Prep Type: Total/NA
Prep Batch: 585476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND	U	5.00	5.37		mg/L		107	75 - 125

Lab Sample ID: 480-158314-2 MSD
Matrix: Ground Water
Analysis Batch: 586051

Client Sample ID: 624B
Prep Type: Total/NA
Prep Batch: 585476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.70		mg/L		114	75 - 125	6	20

Lab Sample ID: MB 680-586945/1-A
Matrix: Water
Analysis Batch: 587311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586945

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		09/19/19 19:18	09/21/19 12:55	1

Lab Sample ID: LCS 680-586945/2-A
Matrix: Water
Analysis Batch: 587311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	4.71		mg/L		94	80 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-485952/101
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 20:36	1

Lab Sample ID: MB 480-485952/116
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 20:47	1

Lab Sample ID: MB 480-485952/32
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 19:38	1

Lab Sample ID: MB 480-485952/37
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 19:45	1

Lab Sample ID: MB 480-485952/49
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 20:03	1

Lab Sample ID: MB 480-485952/72
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 20:22	1

Lab Sample ID: MB 480-485952/92
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/07/19 20:33	1

Lab Sample ID: LCS 480-485952/102
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.2		mg/L		98	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-485952/117
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.1		mg/L		96	90 - 110

Lab Sample ID: LCS 480-485952/33
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCS 480-485952/38
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.6		mg/L		101	90 - 110

Lab Sample ID: LCS 480-485952/50
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: LCS 480-485952/69
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-485952/93
Matrix: Water
Analysis Batch: 485952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: 480-157195-6 MS
Matrix: Ground Water
Analysis Batch: 485952

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	110		20.0	123		mg/L		57	60 - 140

Lab Sample ID: 480-157195-6 MSD
Matrix: Ground Water
Analysis Batch: 485952

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	110		20.0	132		mg/L		105	60 - 140	7	20

Method: 310.2 - Alkalinity

Lab Sample ID: 480-157195-7 MS
Matrix: Ground Water
Analysis Batch: 485952

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	69		20.0	84.0		mg/L		75	60 - 140

Lab Sample ID: 480-157195-7 MSD
Matrix: Ground Water
Analysis Batch: 485952

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	69		20.0	87.1		mg/L		90	60 - 140	4	20

Lab Sample ID: MB 480-486139/107
Matrix: Water
Analysis Batch: 486139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/08/19 20:57	1

Lab Sample ID: MB 480-486139/43
Matrix: Water
Analysis Batch: 486139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/08/19 19:42	1

Lab Sample ID: LCS 480-486139/108
Matrix: Water
Analysis Batch: 486139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: LCS 480-486139/44
Matrix: Water
Analysis Batch: 486139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: 480-157259-1 MS
Matrix: Ground Water
Analysis Batch: 486139

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	ND	U	20.0	24.1		mg/L		94	60 - 140

Lab Sample ID: 480-157259-1 MSD
Matrix: Ground Water
Analysis Batch: 486139

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	ND	U	20.0	22.0		mg/L		83	60 - 140	9	20

Method: 310.2 - Alkalinity

Lab Sample ID: 480-157259-3 MS
Matrix: Ground Water
Analysis Batch: 486139

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	79		20.0	96.2		mg/L		87	60 - 140		

Lab Sample ID: 480-157259-3 MSD
Matrix: Ground Water
Analysis Batch: 486139

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	79		20.0	94.0		mg/L		76	60 - 140	2	20

Lab Sample ID: MB 480-486266/12
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/09/19 10:43	1

Lab Sample ID: MB 480-486266/42
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/09/19 11:03	1

Lab Sample ID: MB 480-486266/52
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/09/19 11:20	1

Lab Sample ID: MB 480-486266/58
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/09/19 11:24	1

Lab Sample ID: LCS 480-486266/13
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.1		mg/L		98	90 - 110		

Lab Sample ID: LCS 480-486266/43
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.2		mg/L		96	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-486266/53
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.1		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-486266/59
Matrix: Water
Analysis Batch: 486266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.4		mg/L		97	90 - 110		

Lab Sample ID: 480-157327-1 MS
Matrix: Ground Water
Analysis Batch: 486266

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	61		20.0	78.7		mg/L		87	60 - 140		

Lab Sample ID: 480-157327-1 MSD
Matrix: Ground Water
Analysis Batch: 486266

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	61		20.0	78.8		mg/L		87	60 - 140	0	20

Lab Sample ID: 480-157327-5 MS
Matrix: Ground Water
Analysis Batch: 486266

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	62		20.0	80.4		mg/L		91	60 - 140		

Lab Sample ID: 480-157327-5 MSD
Matrix: Ground Water
Analysis Batch: 486266

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	62		20.0	78.8		mg/L		83	60 - 140	2	20

Lab Sample ID: MB 480-486844/12
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/13/19 14:03	1

Lab Sample ID: MB 480-486844/21
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/13/19 14:04	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-486844/30
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/13/19 14:13	1

Lab Sample ID: LCS 480-486844/13
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.4		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-486844/22
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.8		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-486844/31
Matrix: Water
Analysis Batch: 486844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.4		mg/L		103	90 - 110		

Lab Sample ID: 480-157389-1 MS
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	190		20.0	203		mg/L		83	60 - 140		

Lab Sample ID: 480-157389-1 MSD
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	190		20.0	194		mg/L		36	60 - 140	5	20

Lab Sample ID: 480-157389-2 MS
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	290		20.0	300		mg/L		63	60 - 140		

Lab Sample ID: 480-157389-2 MSD
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	290		20.0	286		mg/L		-5	60 - 140	5	20

Method: 310.2 - Alkalinity

Lab Sample ID: 480-157453-3 MS
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	57		20.0	74.5		mg/L		87	60 - 140

Lab Sample ID: 480-157453-3 MSD
Matrix: Ground Water
Analysis Batch: 486844

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	57		20.0	74.4		mg/L		86	60 - 140	0	20

Lab Sample ID: MB 480-487110/12
Matrix: Water
Analysis Batch: 487110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/14/19 15:14	1

Lab Sample ID: MB 480-487110/81
Matrix: Water
Analysis Batch: 487110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/14/19 18:33	1

Lab Sample ID: LCS 480-487110/13
Matrix: Water
Analysis Batch: 487110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: LCS 480-487110/82
Matrix: Water
Analysis Batch: 487110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.0		mg/L		96	90 - 110

Lab Sample ID: 480-157389-6 MS
Matrix: Ground Water
Analysis Batch: 487110

Client Sample ID: 629B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	93		20.0	103		mg/L		54	60 - 140

Lab Sample ID: 480-157389-6 MSD
Matrix: Ground Water
Analysis Batch: 487110

Client Sample ID: 629B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	93		20.0	107		mg/L		71	60 - 140	3	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-488438/12
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/22/19 16:25	1

Lab Sample ID: MB 480-488438/23
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/22/19 16:26	1

Lab Sample ID: MB 480-488438/31
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/22/19 16:59	1

Lab Sample ID: LCS 480-488438/13
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.3		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-488438/24
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.4		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-488438/32
Matrix: Water
Analysis Batch: 488438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.0		mg/L		94	90 - 110		

Lab Sample ID: 480-157906-1 MS
Matrix: Ground Water
Analysis Batch: 488438

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	51		20.0	77.8		mg/L		132	60 - 140		

Lab Sample ID: 480-157906-1 MSD
Matrix: Ground Water
Analysis Batch: 488438

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	51		20.0	77.7		mg/L		131	60 - 140	0	20

Method: 310.2 - Alkalinity

Lab Sample ID: 480-157949-2 MS
Matrix: Ground Water
Analysis Batch: 488438

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	66		20.0	82.0		mg/L		82	60 - 140		

Lab Sample ID: 480-157949-2 MSD
Matrix: Ground Water
Analysis Batch: 488438

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	66		20.0	82.7		mg/L		85	60 - 140	1	20

Lab Sample ID: MB 480-488908/20
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:12	1

Lab Sample ID: MB 480-488908/44
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:40	1

Lab Sample ID: MB 480-488908/50
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:49	1

Lab Sample ID: LCS 480-488908/21
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.0		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-488908/45
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	46.5		mg/L		93	90 - 110		

Lab Sample ID: LCS 480-488908/51
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.2		mg/L		100	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: 480-157992-1 MS
Matrix: Ground Water
Analysis Batch: 488908

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	62		20.0	80.7		mg/L		95	60 - 140

Lab Sample ID: 480-157992-1 MSD
Matrix: Ground Water
Analysis Batch: 488908

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	62		20.0	81.2		mg/L		98	60 - 140	1	20

Lab Sample ID: 480-157992-2 MS
Matrix: Ground Water
Analysis Batch: 488908

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	64		20.0	80.6		mg/L		81	60 - 140

Lab Sample ID: 480-157992-2 MSD
Matrix: Ground Water
Analysis Batch: 488908

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	64		20.0	82.9		mg/L		93	60 - 140	3	20

Lab Sample ID: MB 480-489529/20
Matrix: Water
Analysis Batch: 489529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/29/19 20:06	1

Lab Sample ID: MB 480-489529/44
Matrix: Water
Analysis Batch: 489529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/29/19 20:43	1

Lab Sample ID: LCS 480-489529/21
Matrix: Water
Analysis Batch: 489529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	54.7		mg/L		109	90 - 110

Lab Sample ID: LCS 480-489529/45
Matrix: Water
Analysis Batch: 489529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total			50.0	51.6		mg/L		103	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-489741/12
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/30/19 19:58	1

Lab Sample ID: MB 480-489741/42
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/30/19 20:22	1

Lab Sample ID: LCS 480-489741/13
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.4		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-489741/43
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.6		mg/L		101	90 - 110		

Lab Sample ID: MB 480-491046/12
Matrix: Water
Analysis Batch: 491046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			09/09/19 16:18	1

Lab Sample ID: MB 480-491046/88
Matrix: Water
Analysis Batch: 491046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			09/09/19 17:25	1

Lab Sample ID: LCS 480-491046/13
Matrix: Water
Analysis Batch: 491046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.3		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-491046/89
Matrix: Water
Analysis Batch: 491046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.1		mg/L		96	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: 480-158419-2 MS
Matrix: Ground Water
Analysis Batch: 491046

Client Sample ID: 618CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	61		20.0	77.9		mg/L		85	60 - 140

Lab Sample ID: 480-158419-2 MSD
Matrix: Ground Water
Analysis Batch: 491046

Client Sample ID: 618CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	61		20.0	80.4		mg/L		98	60 - 140	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-485614/27
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:36	1

Lab Sample ID: MB 480-485614/3
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:16	1

Lab Sample ID: MB 480-485614/51
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/06/19 13:57	1

Lab Sample ID: LCS 480-485614/28
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-485614/4
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-485614/52
Matrix: Water
Analysis Batch: 485614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: MB 480-485899/3
Matrix: Water
Analysis Batch: 485899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/07/19 15:24	1

Lab Sample ID: LCS 480-485899/4
Matrix: Water
Analysis Batch: 485899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: 480-157259-1 MS
Matrix: Ground Water
Analysis Batch: 485899

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.191		mg/L as N		96	90 - 110

Lab Sample ID: MB 480-486113/27
Matrix: Water
Analysis Batch: 486113

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:48	1

Lab Sample ID: MB 480-486113/3
Matrix: Water
Analysis Batch: 486113

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/08/19 14:27	1

Lab Sample ID: LCS 480-486113/28
Matrix: Water
Analysis Batch: 486113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.05		mg/L as N		105	90 - 110

Lab Sample ID: LCS 480-486113/4
Matrix: Water
Analysis Batch: 486113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.06		mg/L as N		106	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-157327-8 MS
Matrix: Ground Water
Analysis Batch: 486113

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.255	*	mg/L as N		128	90 - 110		

Lab Sample ID: 480-157327-8 DU
Matrix: Ground Water
Analysis Batch: 486113

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-486487/123
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:49	1

Lab Sample ID: MB 480-486487/27
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 09:27	1

Lab Sample ID: MB 480-486487/51
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 09:48	1

Lab Sample ID: MB 480-486487/75
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:08	1

Lab Sample ID: MB 480-486487/99
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/12/19 10:29	1

Lab Sample ID: LCS 480-486487/100
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-486487/124
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-486487/28
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-486487/52
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-486487/76
Matrix: Water
Analysis Batch: 486487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: 480-157453-3 MS
Matrix: Ground Water
Analysis Batch: 486487

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.212		mg/L as N		106	90 - 110

Lab Sample ID: 480-157453-3 DU
Matrix: Ground Water
Analysis Batch: 486487

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	ND	U	ND	U	mg/L as N		NC	20

Lab Sample ID: MB 480-488376/147
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			08/22/19 11:54	1

Lab Sample ID: MB 480-488376/27
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			08/22/19 10:11	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-488376/3
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 09:50	1

Lab Sample ID: MB 480-488376/99
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/22/19 11:13	1

Lab Sample ID: LCS 480-488376/100
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: LCS 480-488376/148
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: LCS 480-488376/28
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: LCS 480-488376/4
Matrix: Water
Analysis Batch: 488376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.04		mg/L as N		104	90 - 110		

Lab Sample ID: MB 480-488506/27
Matrix: Water
Analysis Batch: 488506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:59	1

Lab Sample ID: MB 480-488506/3
Matrix: Water
Analysis Batch: 488506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/23/19 08:39	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-488506/28
Matrix: Water
Analysis Batch: 488506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-488506/4
Matrix: Water
Analysis Batch: 488506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: MB 480-490559/27
Matrix: Water
Analysis Batch: 490559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			09/06/19 08:12	1

Lab Sample ID: MB 480-490559/51
Matrix: Water
Analysis Batch: 490559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			09/06/19 08:33	1

Lab Sample ID: LCS 480-490559/28
Matrix: Water
Analysis Batch: 490559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-490559/52
Matrix: Water
Analysis Batch: 490559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: MB 480-490641/3
Matrix: Water
Analysis Batch: 490641

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			09/06/19 12:12	1

Lab Sample ID: LCS 480-490641/4
Matrix: Water
Analysis Batch: 490641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.04		mg/L as N		104	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-158239-1 MS
Matrix: Ground Water
Analysis Batch: 490641

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.156	*	mg/L as N		78	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-486368/3
Matrix: Water
Analysis Batch: 486368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050		mg/L as N			08/10/19 12:24	1

Lab Sample ID: LCS 480-486368/4
Matrix: Water
Analysis Batch: 486368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite			1.50	1.48		mg/L as N		99	90 - 110

Lab Sample ID: 480-157453-3 MS
Matrix: Ground Water
Analysis Batch: 486368

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	ND	U	1.00	0.951		mg/L as N		95	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-486365/3
Matrix: Water
Analysis Batch: 486365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/10/19 10:42	1

Lab Sample ID: MB 480-486365/99
Matrix: Water
Analysis Batch: 486365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/10/19 10:42	1

Lab Sample ID: LCS 480-486365/100
Matrix: Water
Analysis Batch: 486365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand			25.0	24.2		mg/L		97	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-486365/4
Matrix: Water
Analysis Batch: 486365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	23.3		mg/L		93	90 - 110		

Lab Sample ID: 480-157259-4 MS
Matrix: Ground Water
Analysis Batch: 486365

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	56.0		mg/L		112	75 - 125		

Lab Sample ID: 480-157327-4 MS
Matrix: Ground Water
Analysis Batch: 486365

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	55.7		mg/L		111	75 - 125		

Lab Sample ID: 480-157327-4 DU
Matrix: Ground Water
Analysis Batch: 486365

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND	U		ND	U	mg/L				NC	20

Lab Sample ID: MB 480-486380/75
Matrix: Water
Analysis Batch: 486380

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/11/19 09:47	1

Lab Sample ID: LCS 480-486380/76
Matrix: Water
Analysis Batch: 486380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	22.9		mg/L		92	90 - 110		

Lab Sample ID: MB 480-488675/27
Matrix: Water
Analysis Batch: 488675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/24/19 09:30	1

Lab Sample ID: LCS 480-488675/28
Matrix: Water
Analysis Batch: 488675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	23.3		mg/L		93	90 - 110		

Method: 410.4 - COD

Lab Sample ID: 480-157906-3 MS
Matrix: Ground Water
Analysis Batch: 488675

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	57.0		mg/L		114	75 - 125		

Lab Sample ID: MB 480-488739/28
Matrix: Water
Analysis Batch: 488739

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/25/19 14:34	1

Lab Sample ID: MB 480-488739/4
Matrix: Water
Analysis Batch: 488739

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/25/19 13:28	1

Lab Sample ID: LCS 480-488739/29
Matrix: Water
Analysis Batch: 488739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.2		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-488739/5
Matrix: Water
Analysis Batch: 488739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	25.3		mg/L		101	90 - 110		

Lab Sample ID: 480-157949-3 MS
Matrix: Ground Water
Analysis Batch: 488739

Client Sample ID: 617A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	49.5		mg/L		99	75 - 125		

Lab Sample ID: 480-157949-3 MSD
Matrix: Ground Water
Analysis Batch: 488739

Client Sample ID: 617A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND	U	50.0	49.8		mg/L		100	75 - 125	1	20

Lab Sample ID: MB 480-489045/27
Matrix: Water
Analysis Batch: 489045

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/27/19 11:23	1

Method: 410.4 - COD

Lab Sample ID: LCS 480-489045/28
Matrix: Water
Analysis Batch: 489045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.5		mg/L		98	90 - 110

Lab Sample ID: MB 480-489964/27
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/03/19 13:23	1

Lab Sample ID: MB 480-489964/51
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/03/19 13:23	1

Lab Sample ID: LCS 480-489964/28
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	27.1		mg/L		108	90 - 110

Lab Sample ID: LCS 480-489964/52
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.9		mg/L		96	90 - 110

Lab Sample ID: MB 480-490698/75
Matrix: Water
Analysis Batch: 490698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/06/19 14:05	1

Lab Sample ID: LCS 480-490698/76
Matrix: Water
Analysis Batch: 490698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.5		mg/L		106	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-486438/104
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/11/19 15:40	1

Lab Sample ID: MB 480-486438/44
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/11/19 12:27	1

Lab Sample ID: MB 480-486438/56
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/11/19 12:41	1

Lab Sample ID: LCS 480-486438/103
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.6		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-486438/43
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.8		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-486438/55
Matrix: Water
Analysis Batch: 486438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.3		mg/L		98	90 - 110		

Lab Sample ID: 480-157195-1 MS
Matrix: Ground Water
Analysis Batch: 486438

Client Sample ID: W11-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	28.8	*	mg/L		144	60 - 128		

Lab Sample ID: 480-157195-1 MSD
Matrix: Ground Water
Analysis Batch: 486438

Client Sample ID: W11-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	28.1	*	mg/L		141	60 - 128	2	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-157195-2 MS
Matrix: Ground Water
Analysis Batch: 486438

Client Sample ID: W11-1ER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	29.8	*	mg/L		149	60 - 128

Lab Sample ID: 480-157195-2 MSD
Matrix: Ground Water
Analysis Batch: 486438

Client Sample ID: W11-1ER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.1	*	mg/L		145	60 - 128	2	20

Lab Sample ID: MB 480-486606/37
Matrix: Water
Analysis Batch: 486606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/12/19 17:43	1

Lab Sample ID: MB 480-486606/54
Matrix: Water
Analysis Batch: 486606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/12/19 18:00	1

Lab Sample ID: LCS 480-486606/36
Matrix: Water
Analysis Batch: 486606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	30.2		mg/L		101	90 - 110

Lab Sample ID: LCS 480-486606/53
Matrix: Water
Analysis Batch: 486606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			30.0	30.7		mg/L		102	90 - 110

Lab Sample ID: 480-157259-1 MS
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	23.0		mg/L		102	60 - 128

Lab Sample ID: 480-157259-1 MSD
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	24.0		mg/L		107	60 - 128	4	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-157259-2 MS
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	32.8	*	mg/L		164	60 - 128

Lab Sample ID: 480-157259-2 MSD
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	33.7	*	mg/L		168	60 - 128	2	20

Lab Sample ID: 480-157259-3 MS
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	33.7	*	mg/L		145	60 - 128

Lab Sample ID: 480-157259-3 MSD
Matrix: Ground Water
Analysis Batch: 486606

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	33.4	*	mg/L		144	60 - 128	1	20

Lab Sample ID: MB 480-486615/36
Matrix: Water
Analysis Batch: 486615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/12/19 21:16	1

Lab Sample ID: LCS 480-486615/35
Matrix: Water
Analysis Batch: 486615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	27.6		mg/L		92	90 - 110

Lab Sample ID: 480-157389-7 MS
Matrix: Ground Water
Analysis Batch: 486615

Client Sample ID: 629E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	29.2	*	mg/L		146	60 - 128

Lab Sample ID: 480-157389-7 MSD
Matrix: Ground Water
Analysis Batch: 486615

Client Sample ID: 629E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.5	*	mg/L		147	60 - 128	1	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-486910/25
Matrix: Water
Analysis Batch: 486910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/13/19 15:23	1

Lab Sample ID: LCS 480-486910/24
Matrix: Water
Analysis Batch: 486910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.4		mg/L		98	90 - 110		

Lab Sample ID: 480-157453-1 MS
Matrix: Ground Water
Analysis Batch: 486910

Client Sample ID: 107BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	40.0	39.5		mg/L		99	60 - 128		

Lab Sample ID: 480-157453-1 MSD
Matrix: Ground Water
Analysis Batch: 486910

Client Sample ID: 107BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	40.0	47.3		mg/L		118	60 - 128	18	20

Lab Sample ID: MB 480-487493/44
Matrix: Water
Analysis Batch: 487493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/16/19 12:40	1

Lab Sample ID: LCS 480-487493/43
Matrix: Water
Analysis Batch: 487493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.1		mg/L		100	90 - 110		

Lab Sample ID: MB 480-488906/29
Matrix: Water
Analysis Batch: 488906

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/26/19 20:45	1

Lab Sample ID: LCS 480-488906/28
Matrix: Water
Analysis Batch: 488906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	27.7		mg/L		92	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-157906-2 MS
Matrix: Ground Water
Analysis Batch: 488906

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	29.5	*	mg/L		147	60 - 128		

Lab Sample ID: 480-157906-2 MSD
Matrix: Ground Water
Analysis Batch: 488906

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.8	*	mg/L		149	60 - 128	1	20

Lab Sample ID: 480-157906-3 MS
Matrix: Ground Water
Analysis Batch: 488906

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	35.3	*	mg/L		176	60 - 128		

Lab Sample ID: 480-157906-3 MSD
Matrix: Ground Water
Analysis Batch: 488906

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	34.8	*	mg/L		174	60 - 128	1	20

Lab Sample ID: MB 480-489120/12
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/27/19 19:15	1

Lab Sample ID: MB 480-489120/48
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/27/19 20:53	1

Lab Sample ID: MB 480-489120/77
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/27/19 21:27	1

Lab Sample ID: LCS 480-489120/11
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-489120/47
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.3		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-489120/76
Matrix: Water
Analysis Batch: 489120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.0		mg/L		97	90 - 110		

Lab Sample ID: 480-157949-2 MS
Matrix: Ground Water
Analysis Batch: 489120

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	30.6	*	mg/L		130	60 - 128		

Lab Sample ID: 480-157949-2 MSD
Matrix: Ground Water
Analysis Batch: 489120

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	31.2	*	mg/L		133	60 - 128	2	20

Lab Sample ID: 480-157949-5 MS
Matrix: Ground Water
Analysis Batch: 489120

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	10		20.0	43.8	*	mg/L		167	60 - 128		

Lab Sample ID: 480-157949-5 MSD
Matrix: Ground Water
Analysis Batch: 489120

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10		20.0	44.4	*	mg/L		170	60 - 128	1	20

Lab Sample ID: MB 480-489321/42
Matrix: Water
Analysis Batch: 489321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/28/19 19:54	1

Lab Sample ID: MB 480-489321/65
Matrix: Water
Analysis Batch: 489321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			08/28/19 20:14	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-489321/41
Matrix: Water
Analysis Batch: 489321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.1		mg/L		94	90 - 110

Lab Sample ID: LCS 480-489321/64
Matrix: Water
Analysis Batch: 489321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.1		mg/L		94	90 - 110

Lab Sample ID: 480-157992-1 MS
Matrix: Ground Water
Analysis Batch: 489321

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	29.5	*	mg/L		130	60 - 128

Lab Sample ID: 480-157992-1 MSD
Matrix: Ground Water
Analysis Batch: 489321

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	29.5	*	mg/L		130	60 - 128	0	20

Lab Sample ID: 480-157992-2 MS
Matrix: Ground Water
Analysis Batch: 489321

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.1		20.0	32.4		mg/L		122	60 - 128

Lab Sample ID: 480-157992-2 MSD
Matrix: Ground Water
Analysis Batch: 489321

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	8.1		20.0	32.2		mg/L		121	60 - 128	1	20

Lab Sample ID: MB 480-489536/40
Matrix: Water
Analysis Batch: 489536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			08/30/19 00:07	1

Lab Sample ID: LCS 480-489536/39
Matrix: Water
Analysis Batch: 489536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.3		mg/L		94	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-489995/46
Matrix: Water
Analysis Batch: 489995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			09/03/19 15:37	1

Lab Sample ID: LCS 480-489995/45
Matrix: Water
Analysis Batch: 489995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	27.9		mg/L		93	90 - 110		

Lab Sample ID: MB 480-490219/43
Matrix: Water
Analysis Batch: 490219

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			09/04/19 19:09	1

Lab Sample ID: LCS 480-490219/42
Matrix: Water
Analysis Batch: 490219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.4		mg/L		98	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-485953/24
Matrix: Water
Analysis Batch: 485953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/07/19 19:43	1

Lab Sample ID: MB 480-485953/36
Matrix: Water
Analysis Batch: 485953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/07/19 19:51	1

Lab Sample ID: LCS 480-485953/25
Matrix: Water
Analysis Batch: 485953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.9		mg/L		108	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-485953/37
Matrix: Water
Analysis Batch: 485953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: 480-157195-6 MS
Matrix: Ground Water
Analysis Batch: 485953

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.0		20.0	22.8		mg/L		104	74 - 131		

Lab Sample ID: 480-157195-6 MSD
Matrix: Ground Water
Analysis Batch: 485953

Client Sample ID: W11-6E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.0		20.0	23.6		mg/L		108	74 - 131	3	20

Lab Sample ID: MB 480-486138/12
Matrix: Water
Analysis Batch: 486138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/08/19 19:11	1

Lab Sample ID: MB 480-486138/24
Matrix: Water
Analysis Batch: 486138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/08/19 19:14	1

Lab Sample ID: LCS 480-486138/13
Matrix: Water
Analysis Batch: 486138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.8		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-486138/25
Matrix: Water
Analysis Batch: 486138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.6		mg/L		107	90 - 110		

Lab Sample ID: 480-157259-1 MS
Matrix: Ground Water
Analysis Batch: 486138

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.4		20.0	22.4		mg/L		105	74 - 131		

Method: 9251 - Chloride

Lab Sample ID: 480-157259-1 MSD
Matrix: Ground Water
Analysis Batch: 486138

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.4		20.0	23.7		mg/L		111	74 - 131	5	20

Lab Sample ID: 480-157259-3 MS
Matrix: Ground Water
Analysis Batch: 486138

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.6		20.0	23.6		mg/L		110	74 - 131

Lab Sample ID: 480-157259-3 MSD
Matrix: Ground Water
Analysis Batch: 486138

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.6		20.0	23.8		mg/L		111	74 - 131	1	20

Lab Sample ID: MB 480-486265/12
Matrix: Water
Analysis Batch: 486265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/09/19 10:41	1

Lab Sample ID: MB 480-486265/24
Matrix: Water
Analysis Batch: 486265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/09/19 11:01	1

Lab Sample ID: LCS 480-486265/13
Matrix: Water
Analysis Batch: 486265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.1		mg/L		108	90 - 110

Lab Sample ID: LCS 480-486265/25
Matrix: Water
Analysis Batch: 486265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.3		mg/L		109	90 - 110

Lab Sample ID: 480-157327-1 MS
Matrix: Ground Water
Analysis Batch: 486265

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.2		20.0	22.5		mg/L		107	74 - 131

Method: 9251 - Chloride

Lab Sample ID: 480-157327-1 MSD
Matrix: Ground Water
Analysis Batch: 486265

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.2		20.0	23.2		mg/L		110	74 - 131	3	20

Lab Sample ID: 480-157327-5 MS
Matrix: Ground Water
Analysis Batch: 486265

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.4		20.0	23.9		mg/L		113	74 - 131

Lab Sample ID: 480-157327-5 MSD
Matrix: Ground Water
Analysis Batch: 486265

Client Sample ID: 630E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.4		20.0	23.1		mg/L		108	74 - 131	4	20

Lab Sample ID: MB 480-486843/12
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/13/19 14:01	1

Lab Sample ID: MB 480-486843/24
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/13/19 14:10	1

Lab Sample ID: MB 480-486843/35
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/13/19 14:22	1

Lab Sample ID: LCS 480-486843/13
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			25.0	27.1		mg/L		108	90 - 110

Lab Sample ID: LCS 480-486843/25
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			25.0	26.6		mg/L		106	90 - 110

Method: 9251 - Chloride

Lab Sample ID: LCS 480-486843/36
Matrix: Water
Analysis Batch: 486843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: 480-157389-1 MS
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	7.4		20.0	27.8		mg/L		102	74 - 131		

Lab Sample ID: 480-157389-1 MSD
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.4		20.0	27.0		mg/L		98	74 - 131	3	20

Lab Sample ID: 480-157389-2 MS
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.5		20.0	23.9		mg/L		107	74 - 131		

Lab Sample ID: 480-157389-2 MSD
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		20.0	23.3		mg/L		104	74 - 131	2	20

Lab Sample ID: 480-157453-3 MS
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.0		20.0	22.3		mg/L		102	74 - 131		

Lab Sample ID: 480-157453-3 MSD
Matrix: Ground Water
Analysis Batch: 486843

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.0		20.0	23.1		mg/L		105	74 - 131	3	20

Lab Sample ID: MB 480-487109/24
Matrix: Water
Analysis Batch: 487109

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/14/19 15:15	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-487109/35
Matrix: Water
Analysis Batch: 487109

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/14/19 15:38	1

Lab Sample ID: LCS 480-487109/25
Matrix: Water
Analysis Batch: 487109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.3		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-487109/36
Matrix: Water
Analysis Batch: 487109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.5		mg/L		110	90 - 110		

Lab Sample ID: MB 480-487517/32
Matrix: Water
Analysis Batch: 487517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/16/19 12:33	1

Lab Sample ID: LCS 480-487517/33
Matrix: Water
Analysis Batch: 487517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.5		mg/L		106	90 - 110		

Lab Sample ID: MB 480-488437/17
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/22/19 16:23	1

Lab Sample ID: MB 480-488437/53
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/22/19 16:51	1

Lab Sample ID: MB 480-488437/67
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/22/19 17:08	1

Method: 9251 - Chloride

Lab Sample ID: LCS 480-488437/18
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.4		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-488437/54
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.4		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-488437/66
Matrix: Water
Analysis Batch: 488437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.3		mg/L		101	90 - 110		

Lab Sample ID: 480-157906-1 MS
Matrix: Ground Water
Analysis Batch: 488437

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.2		20.0	23.3		mg/L		105	74 - 131		

Lab Sample ID: 480-157906-1 MSD
Matrix: Ground Water
Analysis Batch: 488437

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.2		20.0	24.7		mg/L		112	74 - 131	6	20

Lab Sample ID: 480-157949-2 MS
Matrix: Ground Water
Analysis Batch: 488437

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	4.2		20.0	25.8		mg/L		108	74 - 131		

Lab Sample ID: 480-157949-2 MSD
Matrix: Ground Water
Analysis Batch: 488437

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.2		20.0	25.9		mg/L		108	74 - 131	0	20

Lab Sample ID: MB 480-488907/12
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:10	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-488907/24
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:19	1

Lab Sample ID: MB 480-488907/45
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:31	1

Lab Sample ID: LCS 480-488907/13
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.8		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-488907/25
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-488907/46
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: 480-157906-2 MS
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.8		20.0	24.7		mg/L		109	74 - 131		

Lab Sample ID: 480-157906-2 MSD
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.8		20.0	25.2		mg/L		112	74 - 131	2	20

Lab Sample ID: 480-157992-1 MS
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	4.2		20.0	25.7		mg/L		108	74 - 131		

Method: 9251 - Chloride

Lab Sample ID: 480-157992-1 MSD
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.2		20.0	25.8		mg/L		108	74 - 131	0	20

Lab Sample ID: 480-157992-2 MS
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.9		20.0	24.5		mg/L		108	74 - 131

Lab Sample ID: 480-157992-2 MSD
Matrix: Ground Water
Analysis Batch: 488907

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.9		20.0	24.4		mg/L		107	74 - 131	1	20

Lab Sample ID: MB 480-489528/12
Matrix: Water
Analysis Batch: 489528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/29/19 20:04	1

Lab Sample ID: LCS 480-489528/13
Matrix: Water
Analysis Batch: 489528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.0		mg/L		104	90 - 110

Lab Sample ID: 480-158239-1 MS
Matrix: Ground Water
Analysis Batch: 489528

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.6		20.0	26.9		mg/L		107	74 - 131

Lab Sample ID: 480-158239-1 MSD
Matrix: Ground Water
Analysis Batch: 489528

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.6		20.0	27.2		mg/L		108	74 - 131	1	20

Lab Sample ID: 480-158239-2 MS
Matrix: Water
Analysis Batch: 489528

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.80		20.0	22.3		mg/L		107	74 - 131

Method: 9251 - Chloride

Lab Sample ID: 480-158239-2 MSD
Matrix: Water
Analysis Batch: 489528

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	0.80		20.0	22.3		mg/L		107	74 - 131	0	20

Lab Sample ID: MB 480-489740/12
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/30/19 19:56	1

Lab Sample ID: MB 480-489740/18
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/30/19 20:04	1

Lab Sample ID: LCS 480-489740/13
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-489740/19
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: MB 480-491045/12
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			09/09/19 16:16	1

Lab Sample ID: LCS 480-491045/13
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.2		mg/L		105	90 - 110		

Lab Sample ID: 480-158419-2 MS
Matrix: Ground Water
Analysis Batch: 491045

Client Sample ID: 618CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.3		20.0	23.1		mg/L		109	74 - 131		

Method: 9251 - Chloride

Lab Sample ID: 480-158419-2 MSD
Matrix: Ground Water
Analysis Batch: 491045

Client Sample ID: 618CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.3		20.0	23.1		mg/L		109	74 - 131	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-485996/1
Matrix: Water
Analysis Batch: 485996

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/08/19 09:05	1

Lab Sample ID: LCS 480-485996/2
Matrix: Water
Analysis Batch: 485996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	467		mg/L		93	85 - 115		

Lab Sample ID: MB 480-486058/1
Matrix: Water
Analysis Batch: 486058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/08/19 11:29	1

Lab Sample ID: LCS 480-486058/2
Matrix: Water
Analysis Batch: 486058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	453		mg/L		91	85 - 115		

Lab Sample ID: MB 480-486434/1
Matrix: Water
Analysis Batch: 486434

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/12/19 08:39	1

Lab Sample ID: LCS 480-486434/2
Matrix: Water
Analysis Batch: 486434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	454		mg/L		91	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 480-486579/1
Matrix: Water
Analysis Batch: 486579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/12/19 16:26	1

Lab Sample ID: LCS 480-486579/2
Matrix: Water
Analysis Batch: 486579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	468		mg/L		94	85 - 115		

Lab Sample ID: MB 480-486697/1
Matrix: Water
Analysis Batch: 486697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/13/19 10:16	1

Lab Sample ID: LCS 480-486697/2
Matrix: Water
Analysis Batch: 486697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	451		mg/L		90	85 - 115		

Lab Sample ID: 480-157195-7 DU
Matrix: Ground Water
Analysis Batch: 486697

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	68			73.0		mg/L				7	10

Lab Sample ID: 480-157389-5 DU
Matrix: Ground Water
Analysis Batch: 486697

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	210			215		mg/L				0.9	10

Lab Sample ID: MB 480-486736/1
Matrix: Water
Analysis Batch: 486736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/13/19 12:38	1

Lab Sample ID: LCS 480-486736/2
Matrix: Water
Analysis Batch: 486736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	436		mg/L		87	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-486955/1
Matrix: Water
Analysis Batch: 486955

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/14/19 10:39	1

Lab Sample ID: LCS 480-486955/2
Matrix: Water
Analysis Batch: 486955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	450		mg/L		90	85 - 115		

Lab Sample ID: 480-157453-3 DU
Matrix: Ground Water
Analysis Batch: 486955

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	55			51.0		mg/L				8	10

Lab Sample ID: MB 480-487192/1
Matrix: Water
Analysis Batch: 487192

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/15/19 09:40	1

Lab Sample ID: LCS 480-487192/2
Matrix: Water
Analysis Batch: 487192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	437		mg/L		87	85 - 115		

Lab Sample ID: MB 480-487320/1
Matrix: Water
Analysis Batch: 487320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/15/19 16:42	1

Lab Sample ID: LCS 480-487320/2
Matrix: Water
Analysis Batch: 487320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	481		mg/L		96	85 - 115		

Lab Sample ID: 480-157389-3 DU
Matrix: Ground Water
Analysis Batch: 487320

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	210			209		mg/L				2	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-488048/1
Matrix: Water
Analysis Batch: 488048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/21/19 08:30	1

Lab Sample ID: LCS 480-488048/2
Matrix: Water
Analysis Batch: 488048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	528		mg/L		106	85 - 115		

Lab Sample ID: 480-157906-3 DU
Matrix: Ground Water
Analysis Batch: 488048

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	160			174		mg/L				8	10

Lab Sample ID: MB 480-488291/1
Matrix: Water
Analysis Batch: 488291

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/22/19 08:22	1

Lab Sample ID: LCS 480-488291/2
Matrix: Water
Analysis Batch: 488291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	480		mg/L		96	85 - 115		

Lab Sample ID: MB 480-488496/1
Matrix: Water
Analysis Batch: 488496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/23/19 08:29	1

Lab Sample ID: LCS 480-488496/2
Matrix: Water
Analysis Batch: 488496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	510		mg/L		102	85 - 115		

Lab Sample ID: 480-157992-1 DU
Matrix: Ground Water
Analysis Batch: 488496

Client Sample ID: 310C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			110		mg/L				4	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 480-157992-4 DU
Matrix: Ground Water
Analysis Batch: 488496

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			106		mg/L				4	10

Lab Sample ID: MB 480-488551/1
Matrix: Water
Analysis Batch: 488551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/23/19 11:42	1

Lab Sample ID: LCS 480-488551/2
Matrix: Water
Analysis Batch: 488551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	476		mg/L		95	85 - 115		

Lab Sample ID: 480-157992-5 DU
Matrix: Ground Water
Analysis Batch: 488551

Client Sample ID: W9-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	130			127		mg/L				0	10

Lab Sample ID: MB 480-489272/1
Matrix: Water
Analysis Batch: 489272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/28/19 14:52	1

Lab Sample ID: LCS 480-489272/2
Matrix: Water
Analysis Batch: 489272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	467		mg/L		93	85 - 115		

Lab Sample ID: 480-158239-1 DU
Matrix: Ground Water
Analysis Batch: 489272

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	330			360		mg/L				8	10

Lab Sample ID: MB 480-489358/1
Matrix: Water
Analysis Batch: 489358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/29/19 08:06	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-489358/2
Matrix: Water
Analysis Batch: 489358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	461		mg/L		92	85 - 115		

Lab Sample ID: 480-157992-2 DU
Matrix: Ground Water
Analysis Batch: 489358

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	69			66.0		mg/L				4	10

Lab Sample ID: MB 480-489387/1
Matrix: Water
Analysis Batch: 489387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/29/19 09:43	1

Lab Sample ID: LCS 480-489387/2
Matrix: Water
Analysis Batch: 489387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	472		mg/L		94	85 - 115		

Lab Sample ID: MB 480-489892/1
Matrix: Water
Analysis Batch: 489892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/03/19 11:08	1

Lab Sample ID: LCS 480-489892/2
Matrix: Water
Analysis Batch: 489892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	452		mg/L		90	85 - 115		

Lab Sample ID: 480-158314-2 DU
Matrix: Ground Water
Analysis Batch: 489892

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	350			349		mg/L				0.3	10

Lab Sample ID: MB 480-490326/1
Matrix: Water
Analysis Batch: 490326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/05/19 10:44	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-490326/2
Matrix: Water
Analysis Batch: 490326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	490		mg/L		98	85 - 115		

Lab Sample ID: 480-158419-1 DU
Matrix: Ground Water
Analysis Batch: 490326

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	170			155		mg/L				7	10

Lab Sample ID: MB 480-490590/1
Matrix: Water
Analysis Batch: 490590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/06/19 10:56	1

Lab Sample ID: LCS 480-490590/2
Matrix: Water
Analysis Batch: 490590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	450		mg/L		90	85 - 115		

Lab Sample ID: MB 480-492750/1
Matrix: Water
Analysis Batch: 492750

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/18/19 14:20	1

Lab Sample ID: LCS 480-492750/2
Matrix: Water
Analysis Batch: 492750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	457		mg/L		91	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-485831/1
Matrix: Water
Analysis Batch: 485831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/07/19 11:53	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-485831/2
Matrix: Water
Analysis Batch: 485831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	253	258		mg/L		102	88 - 110

Lab Sample ID: 480-157195-7 DU
Matrix: Ground Water
Analysis Batch: 485831

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-486224/1
Matrix: Water
Analysis Batch: 486224

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/09/19 10:21	1

Lab Sample ID: LCS 480-486224/2
Matrix: Water
Analysis Batch: 486224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	253	247		mg/L		98	88 - 110

Lab Sample ID: MB 480-486546/1
Matrix: Water
Analysis Batch: 486546

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/12/19 14:08	1

Lab Sample ID: LCS 480-486546/2
Matrix: Water
Analysis Batch: 486546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	252	244		mg/L		97	88 - 110

Lab Sample ID: MB 480-486772/1
Matrix: Water
Analysis Batch: 486772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/13/19 14:14	1

Lab Sample ID: LCS 480-486772/2
Matrix: Water
Analysis Batch: 486772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	251	238		mg/L		95	88 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: 480-157327-1 DU
Matrix: Ground Water
Analysis Batch: 486772

Client Sample ID: 101C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: 480-157327-7 DU
Matrix: Ground Water
Analysis Batch: 486772

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-486994/1
Matrix: Water
Analysis Batch: 486994

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/14/19 12:29	1

Lab Sample ID: LCS 480-486994/2
Matrix: Water
Analysis Batch: 486994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			241	224		mg/L		93	88 - 110		

Lab Sample ID: 480-157389-8 DU
Matrix: Ground Water
Analysis Batch: 486994

Client Sample ID: DUP-GW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-487014/1
Matrix: Water
Analysis Batch: 487014

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/14/19 13:22	1

Lab Sample ID: LCS 480-487014/2
Matrix: Water
Analysis Batch: 487014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			255	230		mg/L		90	88 - 110		

Lab Sample ID: MB 480-487931/1
Matrix: Water
Analysis Batch: 487931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/20/19 14:43	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-487931/2
Matrix: Water
Analysis Batch: 487931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	242	218		mg/L		90	88 - 110

Lab Sample ID: MB 480-488165/1
Matrix: Water
Analysis Batch: 488165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/21/19 14:25	1

Lab Sample ID: LCS 480-488165/2
Matrix: Water
Analysis Batch: 488165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	256	229		mg/L		89	88 - 110

Lab Sample ID: MB 480-488366/1
Matrix: Water
Analysis Batch: 488366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/22/19 13:19	1

Lab Sample ID: LCS 480-488366/2
Matrix: Water
Analysis Batch: 488366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	241	226		mg/L		94	88 - 110

Lab Sample ID: 480-157949-2 DU
Matrix: Ground Water
Analysis Batch: 488366

Client Sample ID: 310AW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: 480-157949-4 DU
Matrix: Ground Water
Analysis Batch: 488366

Client Sample ID: 617C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	5.6		5.60		mg/L		0	10

Lab Sample ID: MB 480-488777/1
Matrix: Water
Analysis Batch: 488777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			08/26/19 10:32	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-488777/2
Matrix: Water
Analysis Batch: 488777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			257	258		mg/L		100	88 - 110		

Lab Sample ID: 480-157992-5 DU
Matrix: Ground Water
Analysis Batch: 488777

Client Sample ID: W9-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-488962/1
Matrix: Water
Analysis Batch: 488962

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/27/19 08:24	1

Lab Sample ID: LCS 480-488962/2
Matrix: Water
Analysis Batch: 488962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			250	246		mg/L		99	88 - 110		

Lab Sample ID: 480-157992-6 DU
Matrix: Ground Water
Analysis Batch: 488962

Client Sample ID: W9-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-489247/1
Matrix: Water
Analysis Batch: 489247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/28/19 12:25	1

Lab Sample ID: LCS 480-489247/2
Matrix: Water
Analysis Batch: 489247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			260	256		mg/L		98	88 - 110		

Lab Sample ID: 480-157992-4 DU
Matrix: Ground Water
Analysis Batch: 489247

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-489696/1
Matrix: Water
Analysis Batch: 489696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/30/19 15:27	1

Lab Sample ID: LCS 480-489696/2
Matrix: Water
Analysis Batch: 489696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			245	240		mg/L		98	88 - 110		

Lab Sample ID: MB 480-490068/1
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/04/19 09:17	1

Lab Sample ID: LCS 480-490068/2
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			247	244		mg/L		99	88 - 110		

Lab Sample ID: 480-158314-3 DU
Matrix: Ground Water
Analysis Batch: 490068

Client Sample ID: 626B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-490107/1
Matrix: Water
Analysis Batch: 490107

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/04/19 11:23	1

Lab Sample ID: LCS 480-490107/2
Matrix: Water
Analysis Batch: 490107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			243	233		mg/L		96	88 - 110		

Lab Sample ID: MB 480-490626/1
Matrix: Water
Analysis Batch: 490626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/06/19 13:39	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-490626/2
Matrix: Water
Analysis Batch: 490626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	244	239		mg/L		98	88 - 110

Lab Sample ID: MB 480-494567/1
Matrix: Water
Analysis Batch: 494567

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/27/19 13:22	1

Lab Sample ID: LCS 480-494567/2
Matrix: Water
Analysis Batch: 494567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	274	258		mg/L		94	88 - 110

Lab Sample ID: 480-157389-2 DU
Matrix: Ground Water
Analysis Batch: 494567

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Method: SM 5310C - TOC

Lab Sample ID: MB 480-487888/52
Matrix: Water
Analysis Batch: 487888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 01:41	1

Lab Sample ID: MB 480-487888/76
Matrix: Water
Analysis Batch: 487888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/17/19 07:41	1

Lab Sample ID: LCS 480-487888/53
Matrix: Water
Analysis Batch: 487888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.0		mg/L		100	90 - 110

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-487888/77
Matrix: Water
Analysis Batch: 487888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.1		mg/L		100	90 - 110		

Lab Sample ID: MB 480-488063/4
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/19/19 16:03	1

Lab Sample ID: MB 480-488063/51
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 05:13	1

Lab Sample ID: MB 480-488063/75
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/20/19 11:47	1

Lab Sample ID: LCS 480-488063/5
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.3		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-488063/52
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.6		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-488063/76
Matrix: Water
Analysis Batch: 488063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.7		mg/L		95	90 - 110		

Lab Sample ID: 480-157327-3 MS
Matrix: Ground Water
Analysis Batch: 488063

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U	44.0	37.3		mg/L		85	54 - 131		

Method: SM 5310C - TOC

Lab Sample ID: 480-157327-3 MSD
Matrix: Ground Water
Analysis Batch: 488063

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	36.6		mg/L		83	54 - 131	2	20

Lab Sample ID: 480-157327-8 MS
Matrix: Ground Water
Analysis Batch: 488063

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	ND	U	44.0	38.0		mg/L		86	54 - 131

Lab Sample ID: 480-157327-8 MSD
Matrix: Ground Water
Analysis Batch: 488063

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	38.1		mg/L		87	54 - 131	0	20

Lab Sample ID: MB 480-488515/27
Matrix: Water
Analysis Batch: 488515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/22/19 03:04	1

Lab Sample ID: MB 480-488515/4
Matrix: Water
Analysis Batch: 488515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/21/19 21:15	1

Lab Sample ID: LCS 480-488515/28
Matrix: Water
Analysis Batch: 488515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	55.9		mg/L		93	90 - 110

Lab Sample ID: LCS 480-488515/5
Matrix: Water
Analysis Batch: 488515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	56.4		mg/L		94	90 - 110

Lab Sample ID: 480-157453-2 MS
Matrix: Ground Water
Analysis Batch: 488515

Client Sample ID: 107CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	ND	U	44.0	38.5		mg/L		88	54 - 131

Method: SM 5310C - TOC

Lab Sample ID: 480-157453-2 MSD
Matrix: Ground Water
Analysis Batch: 488515

Client Sample ID: 107CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	39.6		mg/L		90	54 - 131	3	20

Lab Sample ID: MB 480-488613/27
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 03:07	1

Lab Sample ID: MB 480-488613/51
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 09:07	1

Lab Sample ID: MB 480-488613/75
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 15:07	1

Lab Sample ID: LCS 480-488613/28
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.5		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-488613/52
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.2		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-488613/76
Matrix: Water
Analysis Batch: 488613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.6		mg/L		101	90 - 110		

Lab Sample ID: MB 480-488679/4
Matrix: Water
Analysis Batch: 488679

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/23/19 19:39	1

Method: SM 5310C - TOC

Lab Sample ID: LCS 480-488679/5
Matrix: Water
Analysis Batch: 488679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.3		mg/L		100	90 - 110		

Lab Sample ID: 480-157992-6 MS
Matrix: Ground Water
Analysis Batch: 488679

Client Sample ID: W9-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U	44.0	40.6		mg/L		92	54 - 131		

Lab Sample ID: 480-157992-6 MSD
Matrix: Ground Water
Analysis Batch: 488679

Client Sample ID: W9-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	41.0		mg/L		93	54 - 131	1	20

Lab Sample ID: MB 480-489636/4
Matrix: Water
Analysis Batch: 489636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/29/19 19:29	1

Lab Sample ID: LCS 480-489636/5
Matrix: Water
Analysis Batch: 489636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.8		mg/L		95	90 - 110		

Lab Sample ID: 480-158239-2 MS
Matrix: Water
Analysis Batch: 489636

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U	44.0	32.6		mg/L		74	54 - 131		

Lab Sample ID: 480-158239-2 MSD
Matrix: Water
Analysis Batch: 489636

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	33.1		mg/L		75	54 - 131	2	20

Lab Sample ID: MB 480-490179/4
Matrix: Water
Analysis Batch: 490179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/30/19 18:03	1

Method: SM 5310C - TOC

Lab Sample ID: LCS 480-490179/5
Matrix: Water
Analysis Batch: 490179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	57.1		mg/L		95	90 - 110		

Lab Sample ID: MB 480-490772/27
Matrix: Water
Analysis Batch: 490772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			09/06/19 04:20	1

Lab Sample ID: LCS 480-490772/28
Matrix: Water
Analysis Batch: 490772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.3		mg/L		100	90 - 110		

Metals

Prep Batch: 485669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	3005A	
480-157195-2	W11-1ER	Total/NA	Ground Water	3005A	
480-157195-3	W11-3E	Total/NA	Ground Water	3005A	
480-157195-4	W11-4E	Total/NA	Ground Water	3005A	
480-157195-5	W11-5E	Total/NA	Ground Water	3005A	
480-157195-6	W11-6E	Total/NA	Ground Water	3005A	
480-157195-7	W11-5B	Total/NA	Ground Water	3005A	
MB 480-485669/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-485669/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 485919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	3005A	
480-157259-2	W12-3E	Total/NA	Ground Water	3005A	
480-157259-3	W12-4B	Total/NA	Ground Water	3005A	
480-157259-4	W12-4E	Total/NA	Ground Water	3005A	
MB 480-485919/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-485919/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 486051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	6010C	485669
480-157195-2	W11-1ER	Total/NA	Ground Water	6010C	485669
480-157195-3	W11-3E	Total/NA	Ground Water	6010C	485669
480-157195-4	W11-4E	Total/NA	Ground Water	6010C	485669
480-157195-5	W11-5E	Total/NA	Ground Water	6010C	485669
480-157195-6	W11-6E	Total/NA	Ground Water	6010C	485669
480-157195-7	W11-5B	Total/NA	Ground Water	6010C	485669
MB 480-485669/1-A	Method Blank	Total/NA	Water	6010C	485669
LCS 480-485669/2-A	Lab Control Sample	Total/NA	Water	6010C	485669

Analysis Batch: 486193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-4	W11-4E	Total/NA	Ground Water	6010C	485669
480-157195-5	W11-5E	Total/NA	Ground Water	6010C	485669
480-157195-6	W11-6E	Total/NA	Ground Water	6010C	485669
480-157195-7	W11-5B	Total/NA	Ground Water	6010C	485669
MB 480-485669/1-A	Method Blank	Total/NA	Water	6010C	485669
LCS 480-485669/2-A	Lab Control Sample	Total/NA	Water	6010C	485669

Prep Batch: 486344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	3005A	
480-157327-2	104C	Total/NA	Ground Water	3005A	
480-157327-3	104D	Total/NA	Ground Water	3005A	
480-157327-4	630B	Total/NA	Ground Water	3005A	
480-157327-5	630E	Total/NA	Ground Water	3005A	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	3005A	
480-157327-7	W11-2E	Total/NA	Ground Water	3005A	
480-157327-8	W12-1B	Total/NA	Ground Water	3005A	
480-157389-1	106CR	Total/NA	Ground Water	3005A	

Metals (Continued)

Prep Batch: 486344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-2	106DR	Total/NA	Ground Water	3005A	
480-157389-3	106WR	Total/NA	Ground Water	3005A	
480-157389-4	627A	Total/NA	Ground Water	3005A	
480-157389-5	628A	Total/NA	Ground Water	3005A	
480-157389-6	629B	Total/NA	Ground Water	3005A	
480-157389-7	629E	Total/NA	Ground Water	3005A	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	3005A	
MB 480-486344/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-486344/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-157327-1 MS	101C	Total/NA	Ground Water	3005A	
480-157327-1 MSD	101C	Total/NA	Ground Water	3005A	

Prep Batch: 486630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	3005A	
480-157453-2	107CR	Total/NA	Ground Water	3005A	
480-157453-3	TRANS	Total/NA	Ground Water	3005A	
MB 480-486630/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-486630/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-157453-1 MS	107BR	Total/NA	Ground Water	3005A	
480-157453-1 MSD	107BR	Total/NA	Ground Water	3005A	

Analysis Batch: 486688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	6010C	486344
480-157327-2	104C	Total/NA	Ground Water	6010C	486344
480-157327-3	104D	Total/NA	Ground Water	6010C	486344
480-157327-4	630B	Total/NA	Ground Water	6010C	486344
480-157327-5	630E	Total/NA	Ground Water	6010C	486344
480-157327-6	DUP-GW-01	Total/NA	Ground Water	6010C	486344
480-157327-7	W11-2E	Total/NA	Ground Water	6010C	486344
480-157327-8	W12-1B	Total/NA	Ground Water	6010C	486344
480-157389-1	106CR	Total/NA	Ground Water	6010C	486344
480-157389-2	106DR	Total/NA	Ground Water	6010C	486344
480-157389-3	106WR	Total/NA	Ground Water	6010C	486344
480-157389-4	627A	Total/NA	Ground Water	6010C	486344
480-157389-5	628A	Total/NA	Ground Water	6010C	486344
480-157389-6	629B	Total/NA	Ground Water	6010C	486344
480-157389-7	629E	Total/NA	Ground Water	6010C	486344
480-157389-8	DUP-GW-02	Total/NA	Ground Water	6010C	486344
MB 480-486344/1-A	Method Blank	Total/NA	Water	6010C	486344
LCS 480-486344/2-A	Lab Control Sample	Total/NA	Water	6010C	486344
480-157327-1 MS	101C	Total/NA	Ground Water	6010C	486344
480-157327-1 MSD	101C	Total/NA	Ground Water	6010C	486344

Analysis Batch: 486879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	6010C	485919
480-157259-2	W12-3E	Total/NA	Ground Water	6010C	485919
480-157259-3	W12-4B	Total/NA	Ground Water	6010C	485919
480-157259-4	W12-4E	Total/NA	Ground Water	6010C	485919

Metals (Continued)

Analysis Batch: 486879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-485919/1-A	Method Blank	Total/NA	Water	6010C	485919
LCS 480-485919/2-A	Lab Control Sample	Total/NA	Water	6010C	485919

Analysis Batch: 486887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	6010C	486630
480-157453-2	107CR	Total/NA	Ground Water	6010C	486630
480-157453-3	TRANS	Total/NA	Ground Water	6010C	486630
MB 480-486630/1-A	Method Blank	Total/NA	Water	6010C	486630
LCS 480-486630/2-A	Lab Control Sample	Total/NA	Water	6010C	486630
480-157453-1 MS	107BR	Total/NA	Ground Water	6010C	486630
480-157453-1 MSD	107BR	Total/NA	Ground Water	6010C	486630

Analysis Batch: 487130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	6010C	485919
480-157259-2	W12-3E	Total/NA	Ground Water	6010C	485919
480-157259-3	W12-4B	Total/NA	Ground Water	6010C	485919
480-157259-4	W12-4E	Total/NA	Ground Water	6010C	485919
MB 480-485919/1-A	Method Blank	Total/NA	Water	6010C	485919
LCS 480-485919/2-A	Lab Control Sample	Total/NA	Water	6010C	485919

Prep Batch: 488147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	3005A	
480-157906-2	1008ER2	Total/NA	Ground Water	3005A	
480-157906-3	W12-5E	Total/NA	Ground Water	3005A	
MB 480-488147/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-488147/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 488192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	3005A	
480-157949-2	310AW	Total/NA	Ground Water	3005A	
480-157949-3	617A	Total/NA	Ground Water	3005A	
480-157949-4	617C	Total/NA	Ground Water	3005A	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	3005A	
MB 480-488192/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-488192/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 488416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	3005A	
480-157992-2	310D	Total/NA	Ground Water	3005A	
480-157992-3	620C	Total/NA	Ground Water	3005A	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	3005A	
480-157992-5	W9-1E	Total/NA	Ground Water	3005A	
480-157992-6	W9-2E	Total/NA	Ground Water	3005A	
MB 480-488416/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-488416/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-488416/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 488416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1 MS	310C	Total/NA	Ground Water	3005A	
480-157992-1 MSD	310C	Total/NA	Ground Water	3005A	

Analysis Batch: 488533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	6010C	488192
480-157949-2	310AW	Total/NA	Ground Water	6010C	488192
480-157949-3	617A	Total/NA	Ground Water	6010C	488192
480-157949-4	617C	Total/NA	Ground Water	6010C	488192
480-157949-5	DUP-GW-03	Total/NA	Ground Water	6010C	488192
MB 480-488192/1-A	Method Blank	Total/NA	Water	6010C	488192
LCS 480-488192/2-A	Lab Control Sample	Total/NA	Water	6010C	488192

Analysis Batch: 488539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	6010C	488147
480-157906-2	1008ER2	Total/NA	Ground Water	6010C	488147
480-157906-3	W12-5E	Total/NA	Ground Water	6010C	488147
MB 480-488147/1-A	Method Blank	Total/NA	Water	6010C	488147
LCS 480-488147/2-A	Lab Control Sample	Total/NA	Water	6010C	488147

Analysis Batch: 488645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	6010C	488147
480-157906-2	1008ER2	Total/NA	Ground Water	6010C	488147
480-157906-3	W12-5E	Total/NA	Ground Water	6010C	488147
MB 480-488147/1-A	Method Blank	Total/NA	Water	6010C	488147
LCS 480-488147/2-A	Lab Control Sample	Total/NA	Water	6010C	488147

Analysis Batch: 488724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	6010C	488416
480-157992-2	310D	Total/NA	Ground Water	6010C	488416
480-157992-3	620C	Total/NA	Ground Water	6010C	488416
480-157992-4	DUP-GW-04	Total/NA	Ground Water	6010C	488416
480-157992-5	W9-1E	Total/NA	Ground Water	6010C	488416
480-157992-6	W9-2E	Total/NA	Ground Water	6010C	488416
MB 480-488416/1-A	Method Blank	Total/NA	Water	6010C	488416
LCS 480-488416/2-A	Lab Control Sample	Total/NA	Water	6010C	488416
LCSD 480-488416/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	488416
480-157992-1 MS	310C	Total/NA	Ground Water	6010C	488416
480-157992-1 MSD	310C	Total/NA	Ground Water	6010C	488416

Prep Batch: 489309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	3005A	
480-158239-2	1134B	Total/NA	Water	3005A	
MB 480-489309/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-489309/2-A	Lab Control Sample	Total/NA	Water	3005A	

Metals

Analysis Batch: 489674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	6010C	489309
480-158239-2	1134B	Total/NA	Water	6010C	489309
MB 480-489309/1-A	Method Blank	Total/NA	Water	6010C	489309
LCS 480-489309/2-A	Lab Control Sample	Total/NA	Water	6010C	489309

Prep Batch: 489712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	3005A	
480-158314-2	624B	Total/NA	Ground Water	3005A	
480-158314-3	626B	Total/NA	Ground Water	3005A	
MB 480-489712/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-489712/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-158314-1 MS	1040B	Total/NA	Ground Water	3005A	
480-158314-1 MSD	1040B	Total/NA	Ground Water	3005A	

Prep Batch: 489960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	3005A	
480-158419-2	618CR	Total/NA	Ground Water	3005A	
MB 480-489960/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-489960/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 490285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	6010C	489712
480-158314-2	624B	Total/NA	Ground Water	6010C	489712
480-158314-3	626B	Total/NA	Ground Water	6010C	489712
MB 480-489712/1-A	Method Blank	Total/NA	Water	6010C	489712
LCS 480-489712/2-A	Lab Control Sample	Total/NA	Water	6010C	489712
480-158314-1 MS	1040B	Total/NA	Ground Water	6010C	489712
480-158314-1 MSD	1040B	Total/NA	Ground Water	6010C	489712

Analysis Batch: 490293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	6010C	489960
480-158419-2	618CR	Total/NA	Ground Water	6010C	489960
MB 480-489960/1-A	Method Blank	Total/NA	Water	6010C	489960
LCS 480-489960/2-A	Lab Control Sample	Total/NA	Water	6010C	489960

Prep Batch: 582196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-2	W11-1ER	Total/NA	Ground Water	3010A	
480-157195-3	W11-3E	Total/NA	Ground Water	3010A	
480-157195-4	W11-4E	Total/NA	Ground Water	3010A	
480-157195-5	W11-5E	Total/NA	Ground Water	3010A	
480-157195-6	W11-6E	Total/NA	Ground Water	3010A	
480-157195-7	W11-5B	Total/NA	Ground Water	3010A	
MB 680-582196/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-582196/2-A	Lab Control Sample	Total/NA	Water	3010A	

Metals

Analysis Batch: 582487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-2	W11-1ER	Total/NA	Ground Water	6020A	582196
480-157195-3	W11-3E	Total/NA	Ground Water	6020A	582196
480-157195-4	W11-4E	Total/NA	Ground Water	6020A	582196
480-157195-5	W11-5E	Total/NA	Ground Water	6020A	582196
480-157195-6	W11-6E	Total/NA	Ground Water	6020A	582196
480-157195-7	W11-5B	Total/NA	Ground Water	6020A	582196
MB 680-582196/1-A	Method Blank	Total/NA	Water	6020A	582196
LCS 680-582196/2-A	Lab Control Sample	Total/NA	Water	6020A	582196

Prep Batch: 583186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	3010A	
480-157259-1	W12-2E	Total/NA	Ground Water	3010A	
480-157259-2	W12-3E	Total/NA	Ground Water	3010A	
480-157259-3	W12-4B	Total/NA	Ground Water	3010A	
480-157259-4	W12-4E	Total/NA	Ground Water	3010A	
480-157327-1	101C	Total/NA	Ground Water	3010A	
480-157327-2	104C	Total/NA	Ground Water	3010A	
480-157327-3	104D	Total/NA	Ground Water	3010A	
480-157327-4	630B	Total/NA	Ground Water	3010A	
480-157327-5	630E	Total/NA	Ground Water	3010A	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	3010A	
480-157327-7	W11-2E	Total/NA	Ground Water	3010A	
480-157327-8	W12-1B	Total/NA	Ground Water	3010A	
MB 680-583186/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-583186/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 583282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	3010A	
480-157389-2	106DR	Total/NA	Ground Water	3010A	
480-157389-4	627A	Total/NA	Ground Water	3010A	
480-157389-5	628A	Total/NA	Ground Water	3010A	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	3010A	
480-157453-1	107BR	Total/NA	Ground Water	3010A	
480-157453-2	107CR	Total/NA	Ground Water	3010A	
480-157453-3	TRANS	Total/NA	Ground Water	3010A	
MB 680-583282/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-583282/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 583634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	6020A	583282
480-157389-2	106DR	Total/NA	Ground Water	6020A	583282
480-157389-4	627A	Total/NA	Ground Water	6020A	583282
480-157389-5	628A	Total/NA	Ground Water	6020A	583282
480-157389-8	DUP-GW-02	Total/NA	Ground Water	6020A	583282
480-157453-1	107BR	Total/NA	Ground Water	6020A	583282
480-157453-2	107CR	Total/NA	Ground Water	6020A	583282
480-157453-3	TRANS	Total/NA	Ground Water	6020A	583282
MB 680-583282/1-A	Method Blank	Total/NA	Water	6020A	583282

Metals (Continued)

Analysis Batch: 583634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-583282/2-A	Lab Control Sample	Total/NA	Water	6020A	583282

Analysis Batch: 583656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	6020A	583186
480-157259-1	W12-2E	Total/NA	Ground Water	6020A	583186
480-157259-2	W12-3E	Total/NA	Ground Water	6020A	583186
480-157259-3	W12-4B	Total/NA	Ground Water	6020A	583186
480-157259-4	W12-4E	Total/NA	Ground Water	6020A	583186
480-157327-1	101C	Total/NA	Ground Water	6020A	583186
480-157327-2	104C	Total/NA	Ground Water	6020A	583186
480-157327-3	104D	Total/NA	Ground Water	6020A	583186
480-157327-4	630B	Total/NA	Ground Water	6020A	583186
480-157327-5	630E	Total/NA	Ground Water	6020A	583186
480-157327-6	DUP-GW-01	Total/NA	Ground Water	6020A	583186
480-157327-7	W11-2E	Total/NA	Ground Water	6020A	583186
480-157327-8	W12-1B	Total/NA	Ground Water	6020A	583186
MB 680-583186/1-A	Method Blank	Total/NA	Water	6020A	583186
LCS 680-583186/2-A	Lab Control Sample	Total/NA	Water	6020A	583186

Prep Batch: 584125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	3010A	
480-157906-2	1008ER2	Total/NA	Ground Water	3010A	
480-157906-3	W12-5E	Total/NA	Ground Water	3010A	
MB 680-584125/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-584125/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 584143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	3010A	
480-157949-2	310AW	Total/NA	Ground Water	3010A	
480-157949-3	617A	Total/NA	Ground Water	3010A	
480-157949-4	617C	Total/NA	Ground Water	3010A	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	3010A	
480-157992-1	310C	Total/NA	Ground Water	3010A	
480-157992-2	310D	Total/NA	Ground Water	3010A	
480-157992-3	620C	Total/NA	Ground Water	3010A	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	3010A	
480-157992-5	W9-1E	Total/NA	Ground Water	3010A	
480-157992-6	W9-2E	Total/NA	Ground Water	3010A	
MB 680-584143/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-584143/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-157992-4 MS	DUP-GW-04	Total/NA	Ground Water	3010A	
480-157992-4 MSD	DUP-GW-04	Total/NA	Ground Water	3010A	

Analysis Batch: 584616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	6020A	584125
480-157906-2	1008ER2	Total/NA	Ground Water	6020A	584125
480-157906-3	W12-5E	Total/NA	Ground Water	6020A	584125

Metals (Continued)

Analysis Batch: 584616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-584125/1-A	Method Blank	Total/NA	Water	6020A	584125
LCS 680-584125/2-A	Lab Control Sample	Total/NA	Water	6020A	584125

Prep Batch: 585028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-3	106WR	Total/NA	Ground Water	3010A	
480-157389-6	629B	Total/NA	Ground Water	3010A	
480-157389-7	629E	Total/NA	Ground Water	3010A	
MB 680-585028/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-585028/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 585476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	3010A	
480-158314-1	1040B	Total/NA	Ground Water	3010A	
480-158314-2	624B	Total/NA	Ground Water	3010A	
480-158314-3	626B	Total/NA	Ground Water	3010A	
480-158419-1	620A	Total/NA	Ground Water	3010A	
480-158419-2	618CR	Total/NA	Ground Water	3010A	
480-158314-2 MS	624B	Total/NA	Ground Water	3010A	
480-158314-2 MSD	624B	Total/NA	Ground Water	3010A	

Analysis Batch: 585491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-3	106WR	Total/NA	Ground Water	6020A	585028
480-157389-6	629B	Total/NA	Ground Water	6020A	585028
480-157389-7	629E	Total/NA	Ground Water	6020A	585028
MB 680-585028/1-A	Method Blank	Total/NA	Water	6020A	585028
LCS 680-585028/2-A	Lab Control Sample	Total/NA	Water	6020A	585028

Analysis Batch: 585860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	6020A	584143
480-157949-2	310AW	Total/NA	Ground Water	6020A	584143
480-157949-3	617A	Total/NA	Ground Water	6020A	584143
480-157949-4	617C	Total/NA	Ground Water	6020A	584143
480-157949-5	DUP-GW-03	Total/NA	Ground Water	6020A	584143
480-157992-1	310C	Total/NA	Ground Water	6020A	584143
480-157992-2	310D	Total/NA	Ground Water	6020A	584143
480-157992-3	620C	Total/NA	Ground Water	6020A	584143
480-157992-4	DUP-GW-04	Total/NA	Ground Water	6020A	584143
480-157992-5	W9-1E	Total/NA	Ground Water	6020A	584143
480-157992-6	W9-2E	Total/NA	Ground Water	6020A	584143
MB 680-584143/1-A	Method Blank	Total/NA	Water	6020A	584143
LCS 680-584143/2-A	Lab Control Sample	Total/NA	Water	6020A	584143
480-157992-4 MS	DUP-GW-04	Total/NA	Ground Water	6020A	584143
480-157992-4 MSD	DUP-GW-04	Total/NA	Ground Water	6020A	584143

Analysis Batch: 586051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	6020A	585476

Metals (Continued)

Analysis Batch: 586051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	6020A	585476
480-158314-2	624B	Total/NA	Ground Water	6020A	585476
480-158314-3	626B	Total/NA	Ground Water	6020A	585476
480-158419-1	620A	Total/NA	Ground Water	6020A	585476
480-158419-2	618CR	Total/NA	Ground Water	6020A	585476
480-158314-2 MS	624B	Total/NA	Ground Water	6020A	585476
480-158314-2 MSD	624B	Total/NA	Ground Water	6020A	585476

Prep Batch: 586945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-2	1134B	Total/NA	Water	3010A	
MB 680-586945/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-586945/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 587311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-2	1134B	Total/NA	Water	6020A	586945
MB 680-586945/1-A	Method Blank	Total/NA	Water	6020A	586945
LCS 680-586945/2-A	Lab Control Sample	Total/NA	Water	6020A	586945

General Chemistry

Analysis Batch: 485614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	350.1	
480-157195-2	W11-1ER	Total/NA	Ground Water	350.1	
480-157195-3	W11-3E	Total/NA	Ground Water	350.1	
480-157195-4	W11-4E	Total/NA	Ground Water	350.1	
480-157195-5	W11-5E	Total/NA	Ground Water	350.1	
480-157195-6	W11-6E	Total/NA	Ground Water	350.1	
480-157195-7	W11-5B	Total/NA	Ground Water	350.1	
MB 480-485614/27	Method Blank	Total/NA	Water	350.1	
MB 480-485614/3	Method Blank	Total/NA	Water	350.1	
MB 480-485614/51	Method Blank	Total/NA	Water	350.1	
LCS 480-485614/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-485614/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-485614/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 485680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	353.2	
480-157195-2	W11-1ER	Total/NA	Ground Water	353.2	
480-157195-3	W11-3E	Total/NA	Ground Water	353.2	
480-157195-4	W11-4E	Total/NA	Ground Water	353.2	
480-157195-5	W11-5E	Total/NA	Ground Water	353.2	
480-157195-6	W11-6E	Total/NA	Ground Water	353.2	
480-157195-7	W11-5B	Total/NA	Ground Water	353.2	

Analysis Batch: 485831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 485831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-2	W11-1ER	Total/NA	Ground Water	SM 2540D	
480-157195-3	W11-3E	Total/NA	Ground Water	SM 2540D	
480-157195-4	W11-4E	Total/NA	Ground Water	SM 2540D	
480-157195-5	W11-5E	Total/NA	Ground Water	SM 2540D	
480-157195-6	W11-6E	Total/NA	Ground Water	SM 2540D	
480-157195-7	W11-5B	Total/NA	Ground Water	SM 2540D	
MB 480-485831/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-485831/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157195-7 DU	W11-5B	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 485899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	350.1	
480-157259-2	W12-3E	Total/NA	Ground Water	350.1	
480-157259-3	W12-4B	Total/NA	Ground Water	350.1	
480-157259-4	W12-4E	Total/NA	Ground Water	350.1	
MB 480-485899/3	Method Blank	Total/NA	Water	350.1	
LCS 480-485899/4	Lab Control Sample	Total/NA	Water	350.1	
480-157259-1 MS	W12-2E	Total/NA	Ground Water	350.1	

Analysis Batch: 485933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	353.2	
480-157259-2	W12-3E	Total/NA	Ground Water	353.2	
480-157259-3	W12-4B	Total/NA	Ground Water	353.2	
480-157259-4	W12-4E	Total/NA	Ground Water	353.2	

Analysis Batch: 485952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	310.2	
480-157195-2	W11-1ER	Total/NA	Ground Water	310.2	
480-157195-3	W11-3E	Total/NA	Ground Water	310.2	
480-157195-4	W11-4E	Total/NA	Ground Water	310.2	
480-157195-5	W11-5E	Total/NA	Ground Water	310.2	
480-157195-6	W11-6E	Total/NA	Ground Water	310.2	
480-157195-7	W11-5B	Total/NA	Ground Water	310.2	
MB 480-485952/101	Method Blank	Total/NA	Water	310.2	
MB 480-485952/116	Method Blank	Total/NA	Water	310.2	
MB 480-485952/32	Method Blank	Total/NA	Water	310.2	
MB 480-485952/37	Method Blank	Total/NA	Water	310.2	
MB 480-485952/49	Method Blank	Total/NA	Water	310.2	
MB 480-485952/72	Method Blank	Total/NA	Water	310.2	
MB 480-485952/92	Method Blank	Total/NA	Water	310.2	
LCS 480-485952/102	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/117	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/33	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/38	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/50	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/69	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-485952/93	Lab Control Sample	Total/NA	Water	310.2	
480-157195-6 MS	W11-6E	Total/NA	Ground Water	310.2	

General Chemistry (Continued)

Analysis Batch: 485952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-6 MSD	W11-6E	Total/NA	Ground Water	310.2	
480-157195-7 MS	W11-5B	Total/NA	Ground Water	310.2	
480-157195-7 MSD	W11-5B	Total/NA	Ground Water	310.2	

Analysis Batch: 485953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	9251	
480-157195-2	W11-1ER	Total/NA	Ground Water	9251	
480-157195-3	W11-3E	Total/NA	Ground Water	9251	
480-157195-4	W11-4E	Total/NA	Ground Water	9251	
480-157195-5	W11-5E	Total/NA	Ground Water	9251	
480-157195-6	W11-6E	Total/NA	Ground Water	9251	
MB 480-485953/24	Method Blank	Total/NA	Water	9251	
MB 480-485953/36	Method Blank	Total/NA	Water	9251	
LCS 480-485953/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-485953/37	Lab Control Sample	Total/NA	Water	9251	
480-157195-6 MS	W11-6E	Total/NA	Ground Water	9251	
480-157195-6 MSD	W11-6E	Total/NA	Ground Water	9251	

Analysis Batch: 485996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	SM 2540C	
480-157195-2	W11-1ER	Total/NA	Ground Water	SM 2540C	
480-157195-3	W11-3E	Total/NA	Ground Water	SM 2540C	
480-157195-4	W11-4E	Total/NA	Ground Water	SM 2540C	
480-157195-5	W11-5E	Total/NA	Ground Water	SM 2540C	
480-157195-6	W11-6E	Total/NA	Ground Water	SM 2540C	
480-157195-7	W11-5B	Total/NA	Ground Water	SM 2540C	
MB 480-485996/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-485996/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 486058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	SM 2540C	
480-157259-2	W12-3E	Total/NA	Ground Water	SM 2540C	
480-157259-3	W12-4B	Total/NA	Ground Water	SM 2540C	
480-157259-4	W12-4E	Total/NA	Ground Water	SM 2540C	
MB 480-486058/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-486058/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 486113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	350.1	
480-157327-2	104C	Total/NA	Ground Water	350.1	
480-157327-3	104D	Total/NA	Ground Water	350.1	
480-157327-4	630B	Total/NA	Ground Water	350.1	
480-157327-5	630E	Total/NA	Ground Water	350.1	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	350.1	
480-157327-7	W11-2E	Total/NA	Ground Water	350.1	
480-157327-8	W12-1B	Total/NA	Ground Water	350.1	
MB 480-486113/27	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 486113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-486113/3	Method Blank	Total/NA	Water	350.1	
LCS 480-486113/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-486113/4	Lab Control Sample	Total/NA	Water	350.1	
480-157327-8 MS	W12-1B	Total/NA	Ground Water	350.1	
480-157327-8 DU	W12-1B	Total/NA	Ground Water	350.1	

Analysis Batch: 486128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	353.2	
480-157327-2	104C	Total/NA	Ground Water	353.2	
480-157327-3	104D	Total/NA	Ground Water	353.2	
480-157327-4	630B	Total/NA	Ground Water	353.2	
480-157327-5	630E	Total/NA	Ground Water	353.2	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	353.2	
480-157327-7	W11-2E	Total/NA	Ground Water	353.2	
480-157327-8	W12-1B	Total/NA	Ground Water	353.2	

Analysis Batch: 486138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-7	W11-5B	Total/NA	Ground Water	9251	
480-157259-1	W12-2E	Total/NA	Ground Water	9251	
480-157259-2	W12-3E	Total/NA	Ground Water	9251	
480-157259-3	W12-4B	Total/NA	Ground Water	9251	
MB 480-486138/12	Method Blank	Total/NA	Water	9251	
MB 480-486138/24	Method Blank	Total/NA	Water	9251	
LCS 480-486138/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-486138/25	Lab Control Sample	Total/NA	Water	9251	
480-157259-1 MS	W12-2E	Total/NA	Ground Water	9251	
480-157259-1 MSD	W12-2E	Total/NA	Ground Water	9251	
480-157259-3 MS	W12-4B	Total/NA	Ground Water	9251	
480-157259-3 MSD	W12-4B	Total/NA	Ground Water	9251	

Analysis Batch: 486139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	310.2	
480-157259-2	W12-3E	Total/NA	Ground Water	310.2	
480-157259-3	W12-4B	Total/NA	Ground Water	310.2	
480-157259-4	W12-4E	Total/NA	Ground Water	310.2	
MB 480-486139/107	Method Blank	Total/NA	Water	310.2	
MB 480-486139/43	Method Blank	Total/NA	Water	310.2	
LCS 480-486139/108	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486139/44	Lab Control Sample	Total/NA	Water	310.2	
480-157259-1 MS	W12-2E	Total/NA	Ground Water	310.2	
480-157259-1 MSD	W12-2E	Total/NA	Ground Water	310.2	
480-157259-3 MS	W12-4B	Total/NA	Ground Water	310.2	
480-157259-3 MSD	W12-4B	Total/NA	Ground Water	310.2	

Analysis Batch: 486224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-2	104C	Total/NA	Ground Water	SM 2540D	
480-157327-3	104D	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 486224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-4	630B	Total/NA	Ground Water	SM 2540D	
480-157327-5	630E	Total/NA	Ground Water	SM 2540D	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	SM 2540D	
MB 480-486224/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486224/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 486265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-4	W12-4E	Total/NA	Ground Water	9251	
480-157327-1	101C	Total/NA	Ground Water	9251	
480-157327-2	104C	Total/NA	Ground Water	9251	
480-157327-3	104D	Total/NA	Ground Water	9251	
480-157327-4	630B	Total/NA	Ground Water	9251	
480-157327-5	630E	Total/NA	Ground Water	9251	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	9251	
480-157327-7	W11-2E	Total/NA	Ground Water	9251	
480-157327-8	W12-1B	Total/NA	Ground Water	9251	
MB 480-486265/12	Method Blank	Total/NA	Water	9251	
MB 480-486265/24	Method Blank	Total/NA	Water	9251	
LCS 480-486265/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-486265/25	Lab Control Sample	Total/NA	Water	9251	
480-157327-1 MS	101C	Total/NA	Ground Water	9251	
480-157327-1 MSD	101C	Total/NA	Ground Water	9251	
480-157327-5 MS	630E	Total/NA	Ground Water	9251	
480-157327-5 MSD	630E	Total/NA	Ground Water	9251	

Analysis Batch: 486266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	310.2	
480-157327-2	104C	Total/NA	Ground Water	310.2	
480-157327-3	104D	Total/NA	Ground Water	310.2	
480-157327-4	630B	Total/NA	Ground Water	310.2	
480-157327-5	630E	Total/NA	Ground Water	310.2	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	310.2	
480-157327-7	W11-2E	Total/NA	Ground Water	310.2	
480-157327-8	W12-1B	Total/NA	Ground Water	310.2	
MB 480-486266/12	Method Blank	Total/NA	Water	310.2	
MB 480-486266/42	Method Blank	Total/NA	Water	310.2	
MB 480-486266/52	Method Blank	Total/NA	Water	310.2	
MB 480-486266/58	Method Blank	Total/NA	Water	310.2	
LCS 480-486266/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486266/43	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486266/53	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486266/59	Lab Control Sample	Total/NA	Water	310.2	
480-157327-1 MS	101C	Total/NA	Ground Water	310.2	
480-157327-1 MSD	101C	Total/NA	Ground Water	310.2	
480-157327-5 MS	630E	Total/NA	Ground Water	310.2	
480-157327-5 MSD	630E	Total/NA	Ground Water	310.2	

General Chemistry

Analysis Batch: 486290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	353.2	
480-157389-2	106DR	Total/NA	Ground Water	353.2	
480-157389-3	106WR	Total/NA	Ground Water	353.2	
480-157389-4	627A	Total/NA	Ground Water	353.2	
480-157389-5	628A	Total/NA	Ground Water	353.2	
480-157389-6	629B	Total/NA	Ground Water	353.2	
480-157389-7	629E	Total/NA	Ground Water	353.2	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	353.2	

Analysis Batch: 486365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-4	W12-4E	Total/NA	Ground Water	410.4	
480-157327-4	630B	Total/NA	Ground Water	410.4	
MB 480-486365/3	Method Blank	Total/NA	Water	410.4	
MB 480-486365/99	Method Blank	Total/NA	Water	410.4	
LCS 480-486365/100	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-486365/4	Lab Control Sample	Total/NA	Water	410.4	
480-157259-4 MS	W12-4E	Total/NA	Ground Water	410.4	
480-157327-4 MS	630B	Total/NA	Ground Water	410.4	
480-157327-4 DU	630B	Total/NA	Ground Water	410.4	

Analysis Batch: 486368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3	TRANS	Total/NA	Ground Water	353.2	
MB 480-486368/3	Method Blank	Total/NA	Water	353.2	
LCS 480-486368/4	Lab Control Sample	Total/NA	Water	353.2	
480-157453-3 MS	TRANS	Total/NA	Ground Water	353.2	

Analysis Batch: 486373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	353.2	
480-157453-2	107CR	Total/NA	Ground Water	353.2	
480-157453-3	TRANS	Total/NA	Ground Water	353.2	

Analysis Batch: 486380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	410.4	
480-157389-3	106WR	Total/NA	Ground Water	410.4	
480-157389-6	629B	Total/NA	Ground Water	410.4	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	410.4	
480-157453-1	107BR	Total/NA	Ground Water	410.4	
480-157453-3	TRANS	Total/NA	Ground Water	410.4	
MB 480-486380/75	Method Blank	Total/NA	Water	410.4	
LCS 480-486380/76	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 486434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	SM 2540C	
480-157327-7	W11-2E	Total/NA	Ground Water	SM 2540C	
480-157327-8	W12-1B	Total/NA	Ground Water	SM 2540C	
MB 480-486434/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 486434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-486434/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 486438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	9038	
480-157195-2	W11-1ER	Total/NA	Ground Water	9038	
480-157195-3	W11-3E	Total/NA	Ground Water	9038	
480-157195-4	W11-4E	Total/NA	Ground Water	9038	
480-157195-5	W11-5E	Total/NA	Ground Water	9038	
480-157195-6	W11-6E	Total/NA	Ground Water	9038	
480-157195-7	W11-5B	Total/NA	Ground Water	9038	
480-157327-1	101C	Total/NA	Ground Water	9038	
480-157327-4	630B	Total/NA	Ground Water	9038	
480-157327-5	630E	Total/NA	Ground Water	9038	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	9038	
480-157327-7	W11-2E	Total/NA	Ground Water	9038	
480-157327-8	W12-1B	Total/NA	Ground Water	9038	
MB 480-486438/104	Method Blank	Total/NA	Water	9038	
MB 480-486438/44	Method Blank	Total/NA	Water	9038	
MB 480-486438/56	Method Blank	Total/NA	Water	9038	
LCS 480-486438/103	Lab Control Sample	Total/NA	Water	9038	
LCS 480-486438/43	Lab Control Sample	Total/NA	Water	9038	
LCS 480-486438/55	Lab Control Sample	Total/NA	Water	9038	
480-157195-1 MS	W11-1B	Total/NA	Ground Water	9038	
480-157195-1 MSD	W11-1B	Total/NA	Ground Water	9038	
480-157195-2 MS	W11-1ER	Total/NA	Ground Water	9038	
480-157195-2 MSD	W11-1ER	Total/NA	Ground Water	9038	

Analysis Batch: 486487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	350.1	
480-157389-2	106DR	Total/NA	Ground Water	350.1	
480-157389-3	106WR	Total/NA	Ground Water	350.1	
480-157389-4	627A	Total/NA	Ground Water	350.1	
480-157389-5	628A	Total/NA	Ground Water	350.1	
480-157389-6	629B	Total/NA	Ground Water	350.1	
480-157389-7	629E	Total/NA	Ground Water	350.1	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	350.1	
480-157453-1	107BR	Total/NA	Ground Water	350.1	
480-157453-2	107CR	Total/NA	Ground Water	350.1	
480-157453-3	TRANS	Total/NA	Ground Water	350.1	
MB 480-486487/123	Method Blank	Total/NA	Water	350.1	
MB 480-486487/27	Method Blank	Total/NA	Water	350.1	
MB 480-486487/51	Method Blank	Total/NA	Water	350.1	
MB 480-486487/75	Method Blank	Total/NA	Water	350.1	
MB 480-486487/99	Method Blank	Total/NA	Water	350.1	
LCS 480-486487/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-486487/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-486487/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-486487/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-486487/76	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 486487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3 MS	TRANS	Total/NA	Ground Water	350.1	
480-157453-3 DU	TRANS	Total/NA	Ground Water	350.1	

Analysis Batch: 486546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	SM 2540D	
480-157259-2	W12-3E	Total/NA	Ground Water	SM 2540D	
480-157259-3	W12-4B	Total/NA	Ground Water	SM 2540D	
480-157259-4	W12-4E	Total/NA	Ground Water	SM 2540D	
MB 480-486546/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486546/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 486579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	SM 2540C	
MB 480-486579/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-486579/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 486606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	9038	
480-157259-2	W12-3E	Total/NA	Ground Water	9038	
480-157259-3	W12-4B	Total/NA	Ground Water	9038	
480-157327-2	104C	Total/NA	Ground Water	9038	
480-157327-3	104D	Total/NA	Ground Water	9038	
MB 480-486606/37	Method Blank	Total/NA	Water	9038	
MB 480-486606/54	Method Blank	Total/NA	Water	9038	
LCS 480-486606/36	Lab Control Sample	Total/NA	Water	9038	
LCS 480-486606/53	Lab Control Sample	Total/NA	Water	9038	
480-157259-1 MS	W12-2E	Total/NA	Ground Water	9038	
480-157259-1 MSD	W12-2E	Total/NA	Ground Water	9038	
480-157259-2 MS	W12-3E	Total/NA	Ground Water	9038	
480-157259-2 MSD	W12-3E	Total/NA	Ground Water	9038	
480-157259-3 MS	W12-4B	Total/NA	Ground Water	9038	
480-157259-3 MSD	W12-4B	Total/NA	Ground Water	9038	

Analysis Batch: 486615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-4	W12-4E	Total/NA	Ground Water	9038	
480-157389-1	106CR	Total/NA	Ground Water	9038	
480-157389-2	106DR	Total/NA	Ground Water	9038	
480-157389-3	106WR	Total/NA	Ground Water	9038	
480-157389-4	627A	Total/NA	Ground Water	9038	
480-157389-5	628A	Total/NA	Ground Water	9038	
480-157389-7	629E	Total/NA	Ground Water	9038	
480-157453-2	107CR	Total/NA	Ground Water	9038	
MB 480-486615/36	Method Blank	Total/NA	Water	9038	
LCS 480-486615/35	Lab Control Sample	Total/NA	Water	9038	
480-157389-7 MS	629E	Total/NA	Ground Water	9038	
480-157389-7 MSD	629E	Total/NA	Ground Water	9038	

General Chemistry

Analysis Batch: 486697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-4	W11-4E	Total/NA	Ground Water	SM 2540C	
480-157195-7	W11-5B	Total/NA	Ground Water	SM 2540C	
480-157389-2	106DR	Total/NA	Ground Water	SM 2540C	
480-157389-4	627A	Total/NA	Ground Water	SM 2540C	
480-157389-5	628A	Total/NA	Ground Water	SM 2540C	
480-157389-6	629B	Total/NA	Ground Water	SM 2540C	
480-157389-7	629E	Total/NA	Ground Water	SM 2540C	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	SM 2540C	
MB 480-486697/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-486697/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157195-7 DU	W11-5B	Total/NA	Ground Water	SM 2540C	
480-157389-5 DU	628A	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 486736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	SM 2540C	
480-157453-2	107CR	Total/NA	Ground Water	SM 2540C	
MB 480-486736/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-486736/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 486772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	SM 2540D	
480-157327-7	W11-2E	Total/NA	Ground Water	SM 2540D	
480-157327-8	W12-1B	Total/NA	Ground Water	SM 2540D	
MB 480-486772/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486772/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157327-1 DU	101C	Total/NA	Ground Water	SM 2540D	
480-157327-7 DU	W11-2E	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 486843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	9251	
480-157389-2	106DR	Total/NA	Ground Water	9251	
480-157389-3	106WR	Total/NA	Ground Water	9251	
480-157389-4	627A	Total/NA	Ground Water	9251	
480-157389-5	628A	Total/NA	Ground Water	9251	
480-157389-7	629E	Total/NA	Ground Water	9251	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	9251	
480-157453-2	107CR	Total/NA	Ground Water	9251	
480-157453-3	TRANS	Total/NA	Ground Water	9251	
MB 480-486843/12	Method Blank	Total/NA	Water	9251	
MB 480-486843/24	Method Blank	Total/NA	Water	9251	
MB 480-486843/35	Method Blank	Total/NA	Water	9251	
LCS 480-486843/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-486843/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-486843/36	Lab Control Sample	Total/NA	Water	9251	
480-157389-1 MS	106CR	Total/NA	Ground Water	9251	
480-157389-1 MSD	106CR	Total/NA	Ground Water	9251	
480-157389-2 MS	106DR	Total/NA	Ground Water	9251	
480-157389-2 MSD	106DR	Total/NA	Ground Water	9251	

General Chemistry (Continued)

Analysis Batch: 486843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3 MS	TRANS	Total/NA	Ground Water	9251	
480-157453-3 MSD	TRANS	Total/NA	Ground Water	9251	

Analysis Batch: 486844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	310.2	
480-157389-2	106DR	Total/NA	Ground Water	310.2	
480-157389-3	106WR	Total/NA	Ground Water	310.2	
480-157389-4	627A	Total/NA	Ground Water	310.2	
480-157389-5	628A	Total/NA	Ground Water	310.2	
480-157389-7	629E	Total/NA	Ground Water	310.2	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	310.2	
480-157453-1	107BR	Total/NA	Ground Water	310.2	
480-157453-2	107CR	Total/NA	Ground Water	310.2	
480-157453-3	TRANS	Total/NA	Ground Water	310.2	
MB 480-486844/12	Method Blank	Total/NA	Water	310.2	
MB 480-486844/21	Method Blank	Total/NA	Water	310.2	
MB 480-486844/30	Method Blank	Total/NA	Water	310.2	
LCS 480-486844/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486844/22	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-486844/31	Lab Control Sample	Total/NA	Water	310.2	
480-157389-1 MS	106CR	Total/NA	Ground Water	310.2	
480-157389-1 MSD	106CR	Total/NA	Ground Water	310.2	
480-157389-2 MS	106DR	Total/NA	Ground Water	310.2	
480-157389-2 MSD	106DR	Total/NA	Ground Water	310.2	
480-157453-3 MS	TRANS	Total/NA	Ground Water	310.2	
480-157453-3 MSD	TRANS	Total/NA	Ground Water	310.2	

Analysis Batch: 486910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-6	629B	Total/NA	Ground Water	9038	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	9038	
480-157453-1	107BR	Total/NA	Ground Water	9038	
MB 480-486910/25	Method Blank	Total/NA	Water	9038	
LCS 480-486910/24	Lab Control Sample	Total/NA	Water	9038	
480-157453-1 MS	107BR	Total/NA	Ground Water	9038	
480-157453-1 MSD	107BR	Total/NA	Ground Water	9038	

Analysis Batch: 486955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3	TRANS	Total/NA	Ground Water	SM 2540C	
MB 480-486955/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-486955/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157453-3 DU	TRANS	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 486994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	SM 2540D	
480-157389-2	106DR	Total/NA	Ground Water	SM 2540D	
480-157389-3	106WR	Total/NA	Ground Water	SM 2540D	
480-157389-4	627A	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 486994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-5	628A	Total/NA	Ground Water	SM 2540D	
480-157389-6	629B	Total/NA	Ground Water	SM 2540D	
480-157389-7	629E	Total/NA	Ground Water	SM 2540D	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	SM 2540D	
MB 480-486994/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486994/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157389-8 DU	DUP-GW-02	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 487014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	SM 2540D	
480-157453-2	107CR	Total/NA	Ground Water	SM 2540D	
480-157453-3	TRANS	Total/NA	Ground Water	SM 2540D	
MB 480-487014/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-487014/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 487109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	9251	
MB 480-487109/24	Method Blank	Total/NA	Water	9251	
MB 480-487109/35	Method Blank	Total/NA	Water	9251	
LCS 480-487109/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-487109/36	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 487110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-6	629B	Total/NA	Ground Water	310.2	
MB 480-487110/12	Method Blank	Total/NA	Water	310.2	
MB 480-487110/81	Method Blank	Total/NA	Water	310.2	
LCS 480-487110/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-487110/82	Lab Control Sample	Total/NA	Water	310.2	
480-157389-6 MS	629B	Total/NA	Ground Water	310.2	
480-157389-6 MSD	629B	Total/NA	Ground Water	310.2	

Analysis Batch: 487192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-487192/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-487192/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 487320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-3	106WR	Total/NA	Ground Water	SM 2540C	
MB 480-487320/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-487320/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157389-3 DU	106WR	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 487493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3	TRANS	Total/NA	Ground Water	9038	
MB 480-487493/44	Method Blank	Total/NA	Water	9038	
LCS 480-487493/43	Lab Control Sample	Total/NA	Water	9038	

General Chemistry

Analysis Batch: 487517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-6	629B	Total/NA	Ground Water	9251	
MB 480-487517/32	Method Blank	Total/NA	Water	9251	
LCS 480-487517/33	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 487888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	SM 5310C	
480-157195-2	W11-1ER	Total/NA	Ground Water	SM 5310C	
480-157195-3	W11-3E	Total/NA	Ground Water	SM 5310C	
480-157195-4	W11-4E	Total/NA	Ground Water	SM 5310C	
480-157195-5	W11-5E	Total/NA	Ground Water	SM 5310C	
480-157195-6	W11-6E	Total/NA	Ground Water	SM 5310C	
480-157195-7	W11-5B	Total/NA	Ground Water	SM 5310C	
480-157259-1	W12-2E	Total/NA	Ground Water	SM 5310C	
480-157259-2	W12-3E	Total/NA	Ground Water	SM 5310C	
480-157259-3	W12-4B	Total/NA	Ground Water	SM 5310C	
480-157259-4	W12-4E	Total/NA	Ground Water	SM 5310C	
MB 480-487888/52	Method Blank	Total/NA	Water	SM 5310C	
MB 480-487888/76	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-487888/53	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-487888/77	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 487931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-2	107CR	Total/NA	Ground Water	SM 2540D	
MB 480-487931/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-487931/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 487982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	353.2	
480-157906-2	1008ER2	Total/NA	Ground Water	353.2	
480-157906-3	W12-5E	Total/NA	Ground Water	353.2	

Analysis Batch: 488048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	SM 2540C	
480-157906-2	1008ER2	Total/NA	Ground Water	SM 2540C	
480-157906-3	W12-5E	Total/NA	Ground Water	SM 2540C	
MB 480-488048/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-488048/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157906-3 DU	W12-5E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 488063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	SM 5310C	
480-157327-2	104C	Total/NA	Ground Water	SM 5310C	
480-157327-3	104D	Total/NA	Ground Water	SM 5310C	
480-157327-4	630B	Total/NA	Ground Water	SM 5310C	
480-157327-5	630E	Total/NA	Ground Water	SM 5310C	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 488063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-7	W11-2E	Total/NA	Ground Water	SM 5310C	
480-157327-8	W12-1B	Total/NA	Ground Water	SM 5310C	
480-157389-1	106CR	Total/NA	Ground Water	SM 5310C	
480-157389-2	106DR	Total/NA	Ground Water	SM 5310C	
480-157389-3	106WR	Total/NA	Ground Water	SM 5310C	
480-157389-4	627A	Total/NA	Ground Water	SM 5310C	
480-157389-5	628A	Total/NA	Ground Water	SM 5310C	
MB 480-488063/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-488063/51	Method Blank	Total/NA	Water	SM 5310C	
MB 480-488063/75	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-488063/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-488063/52	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-488063/76	Lab Control Sample	Total/NA	Water	SM 5310C	
480-157327-3 MS	104D	Total/NA	Ground Water	SM 5310C	
480-157327-3 MSD	104D	Total/NA	Ground Water	SM 5310C	
480-157327-8 MS	W12-1B	Total/NA	Ground Water	SM 5310C	
480-157327-8 MSD	W12-1B	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 488165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	SM 2540D	
480-157906-3	W12-5E	Total/NA	Ground Water	SM 2540D	
MB 480-488165/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-488165/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 488214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	353.2	
480-157949-2	310AW	Total/NA	Ground Water	353.2	
480-157949-3	617A	Total/NA	Ground Water	353.2	
480-157949-4	617C	Total/NA	Ground Water	353.2	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	353.2	

Analysis Batch: 488291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	SM 2540C	
480-157949-2	310AW	Total/NA	Ground Water	SM 2540C	
480-157949-3	617A	Total/NA	Ground Water	SM 2540C	
480-157949-4	617C	Total/NA	Ground Water	SM 2540C	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	SM 2540C	
MB 480-488291/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-488291/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 488366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	SM 2540D	
480-157949-2	310AW	Total/NA	Ground Water	SM 2540D	
480-157949-3	617A	Total/NA	Ground Water	SM 2540D	
480-157949-4	617C	Total/NA	Ground Water	SM 2540D	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	SM 2540D	
MB 480-488366/1	Method Blank	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 488366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-488366/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157949-2 DU	310AW	Total/NA	Ground Water	SM 2540D	
480-157949-4 DU	617C	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 488376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	350.1	
480-157906-2	1008ER2	Total/NA	Ground Water	350.1	
480-157906-3	W12-5E	Total/NA	Ground Water	350.1	
480-157949-1	1041B	Total/NA	Ground Water	350.1	
480-157949-2	310AW	Total/NA	Ground Water	350.1	
480-157949-3	617A	Total/NA	Ground Water	350.1	
480-157949-4	617C	Total/NA	Ground Water	350.1	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	350.1	
MB 480-488376/147	Method Blank	Total/NA	Water	350.1	
MB 480-488376/27	Method Blank	Total/NA	Water	350.1	
MB 480-488376/3	Method Blank	Total/NA	Water	350.1	
MB 480-488376/99	Method Blank	Total/NA	Water	350.1	
LCS 480-488376/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488376/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488376/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488376/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 488437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	9251	
480-157906-3	W12-5E	Total/NA	Ground Water	9251	
480-157949-1	1041B	Total/NA	Ground Water	9251	
480-157949-2	310AW	Total/NA	Ground Water	9251	
480-157949-3	617A	Total/NA	Ground Water	9251	
480-157949-4	617C	Total/NA	Ground Water	9251	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	9251	
MB 480-488437/17	Method Blank	Total/NA	Water	9251	
MB 480-488437/53	Method Blank	Total/NA	Water	9251	
MB 480-488437/67	Method Blank	Total/NA	Water	9251	
LCS 480-488437/18	Lab Control Sample	Total/NA	Water	9251	
LCS 480-488437/54	Lab Control Sample	Total/NA	Water	9251	
LCS 480-488437/66	Lab Control Sample	Total/NA	Water	9251	
480-157906-1 MS	1008BR2	Total/NA	Ground Water	9251	
480-157906-1 MSD	1008BR2	Total/NA	Ground Water	9251	
480-157949-2 MS	310AW	Total/NA	Ground Water	9251	
480-157949-2 MSD	310AW	Total/NA	Ground Water	9251	

Analysis Batch: 488438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	310.2	
480-157906-2	1008ER2	Total/NA	Ground Water	310.2	
480-157906-3	W12-5E	Total/NA	Ground Water	310.2	
480-157949-1	1041B	Total/NA	Ground Water	310.2	
480-157949-2	310AW	Total/NA	Ground Water	310.2	
480-157949-3	617A	Total/NA	Ground Water	310.2	

General Chemistry (Continued)

Analysis Batch: 488438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-4	617C	Total/NA	Ground Water	310.2	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	310.2	
MB 480-488438/12	Method Blank	Total/NA	Water	310.2	
MB 480-488438/23	Method Blank	Total/NA	Water	310.2	
MB 480-488438/31	Method Blank	Total/NA	Water	310.2	
LCS 480-488438/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488438/24	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488438/32	Lab Control Sample	Total/NA	Water	310.2	
480-157906-1 MS	1008BR2	Total/NA	Ground Water	310.2	
480-157906-1 MSD	1008BR2	Total/NA	Ground Water	310.2	
480-157949-2 MS	310AW	Total/NA	Ground Water	310.2	
480-157949-2 MSD	310AW	Total/NA	Ground Water	310.2	

Analysis Batch: 488442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	353.2	
480-157992-2	310D	Total/NA	Ground Water	353.2	
480-157992-3	620C	Total/NA	Ground Water	353.2	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	353.2	
480-157992-5	W9-1E	Total/NA	Ground Water	353.2	
480-157992-6	W9-2E	Total/NA	Ground Water	353.2	

Analysis Batch: 488496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	SM 2540C	
480-157992-2	310D	Total/NA	Ground Water	SM 2540C	
480-157992-3	620C	Total/NA	Ground Water	SM 2540C	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	SM 2540C	
MB 480-488496/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-488496/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157992-1 DU	310C	Total/NA	Ground Water	SM 2540C	
480-157992-4 DU	DUP-GW-04	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 488506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	350.1	
480-157992-2	310D	Total/NA	Ground Water	350.1	
480-157992-3	620C	Total/NA	Ground Water	350.1	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	350.1	
480-157992-5	W9-1E	Total/NA	Ground Water	350.1	
480-157992-6	W9-2E	Total/NA	Ground Water	350.1	
MB 480-488506/27	Method Blank	Total/NA	Water	350.1	
MB 480-488506/3	Method Blank	Total/NA	Water	350.1	
LCS 480-488506/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488506/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 488515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-6	629B	Total/NA	Ground Water	SM 5310C	
480-157389-7	629E	Total/NA	Ground Water	SM 5310C	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 488515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-2	107CR	Total/NA	Ground Water	SM 5310C	
480-157453-3	TRANS	Total/NA	Ground Water	SM 5310C	
MB 480-488515/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-488515/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-488515/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-488515/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-157453-2 MS	107CR	Total/NA	Ground Water	SM 5310C	
480-157453-2 MSD	107CR	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 488551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-5	W9-1E	Total/NA	Ground Water	SM 2540C	
480-157992-6	W9-2E	Total/NA	Ground Water	SM 2540C	
MB 480-488551/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-488551/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157992-5 DU	W9-1E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 488613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	SM 5310C	
480-157906-2	1008ER2	Total/NA	Ground Water	SM 5310C	
480-157906-3	W12-5E	Total/NA	Ground Water	SM 5310C	
480-157949-1	1041B	Total/NA	Ground Water	SM 5310C	
480-157949-2	310AW	Total/NA	Ground Water	SM 5310C	
480-157949-3	617A	Total/NA	Ground Water	SM 5310C	
480-157949-4	617C	Total/NA	Ground Water	SM 5310C	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	SM 5310C	
480-157992-1	310C	Total/NA	Ground Water	SM 5310C	
480-157992-2	310D	Total/NA	Ground Water	SM 5310C	
480-157992-3	620C	Total/NA	Ground Water	SM 5310C	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	SM 5310C	
MB 480-488613/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-488613/51	Method Blank	Total/NA	Water	SM 5310C	
MB 480-488613/75	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-488613/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-488613/52	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-488613/76	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 488675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-3	W12-5E	Total/NA	Ground Water	410.4	
MB 480-488675/27	Method Blank	Total/NA	Water	410.4	
LCS 480-488675/28	Lab Control Sample	Total/NA	Water	410.4	
480-157906-3 MS	W12-5E	Total/NA	Ground Water	410.4	

Analysis Batch: 488679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	SM 5310C	
480-157992-5	W9-1E	Total/NA	Ground Water	SM 5310C	
480-157992-6	W9-2E	Total/NA	Ground Water	SM 5310C	
MB 480-488679/4	Method Blank	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 488679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-488679/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-157992-6 MS	W9-2E	Total/NA	Ground Water	SM 5310C	
480-157992-6 MSD	W9-2E	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 488739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	410.4	
480-157949-3	617A	Total/NA	Ground Water	410.4	
MB 480-488739/28	Method Blank	Total/NA	Water	410.4	
MB 480-488739/4	Method Blank	Total/NA	Water	410.4	
LCS 480-488739/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-488739/5	Lab Control Sample	Total/NA	Water	410.4	
480-157949-3 MS	617A	Total/NA	Ground Water	410.4	
480-157949-3 MSD	617A	Total/NA	Ground Water	410.4	

Analysis Batch: 488777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-2	1008ER2	Total/NA	Ground Water	SM 2540D	
480-157992-1	310C	Total/NA	Ground Water	SM 2540D	
480-157992-2	310D	Total/NA	Ground Water	SM 2540D	
480-157992-3	620C	Total/NA	Ground Water	SM 2540D	
480-157992-5	W9-1E	Total/NA	Ground Water	SM 2540D	
MB 480-488777/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-488777/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157992-5 DU	W9-1E	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 488906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	9038	
480-157906-2	1008ER2	Total/NA	Ground Water	9038	
480-157906-3	W12-5E	Total/NA	Ground Water	9038	
MB 480-488906/29	Method Blank	Total/NA	Water	9038	
LCS 480-488906/28	Lab Control Sample	Total/NA	Water	9038	
480-157906-2 MS	1008ER2	Total/NA	Ground Water	9038	
480-157906-2 MSD	1008ER2	Total/NA	Ground Water	9038	
480-157906-3 MS	W12-5E	Total/NA	Ground Water	9038	
480-157906-3 MSD	W12-5E	Total/NA	Ground Water	9038	

Analysis Batch: 488907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-2	1008ER2	Total/NA	Ground Water	9251	
480-157992-1	310C	Total/NA	Ground Water	9251	
480-157992-2	310D	Total/NA	Ground Water	9251	
480-157992-3	620C	Total/NA	Ground Water	9251	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	9251	
480-157992-5	W9-1E	Total/NA	Ground Water	9251	
480-157992-6	W9-2E	Total/NA	Ground Water	9251	
MB 480-488907/12	Method Blank	Total/NA	Water	9251	
MB 480-488907/24	Method Blank	Total/NA	Water	9251	
MB 480-488907/45	Method Blank	Total/NA	Water	9251	
LCS 480-488907/13	Lab Control Sample	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 488907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-488907/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-488907/46	Lab Control Sample	Total/NA	Water	9251	
480-157906-2 MS	1008ER2	Total/NA	Ground Water	9251	
480-157906-2 MSD	1008ER2	Total/NA	Ground Water	9251	
480-157992-1 MS	310C	Total/NA	Ground Water	9251	
480-157992-1 MSD	310C	Total/NA	Ground Water	9251	
480-157992-2 MS	310D	Total/NA	Ground Water	9251	
480-157992-2 MSD	310D	Total/NA	Ground Water	9251	

Analysis Batch: 488908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	310.2	
480-157992-2	310D	Total/NA	Ground Water	310.2	
480-157992-3	620C	Total/NA	Ground Water	310.2	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	310.2	
480-157992-5	W9-1E	Total/NA	Ground Water	310.2	
480-157992-6	W9-2E	Total/NA	Ground Water	310.2	
MB 480-488908/20	Method Blank	Total/NA	Water	310.2	
MB 480-488908/44	Method Blank	Total/NA	Water	310.2	
MB 480-488908/50	Method Blank	Total/NA	Water	310.2	
LCS 480-488908/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488908/45	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488908/51	Lab Control Sample	Total/NA	Water	310.2	
480-157992-1 MS	310C	Total/NA	Ground Water	310.2	
480-157992-1 MSD	310C	Total/NA	Ground Water	310.2	
480-157992-2 MS	310D	Total/NA	Ground Water	310.2	
480-157992-2 MSD	310D	Total/NA	Ground Water	310.2	

Analysis Batch: 488962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-6	W9-2E	Total/NA	Ground Water	SM 2540D	
MB 480-488962/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-488962/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157992-6 DU	W9-2E	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 489045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	410.4	
480-157906-2	1008ER2	Total/NA	Ground Water	410.4	
480-157949-4	617C	Total/NA	Ground Water	410.4	
MB 480-489045/27	Method Blank	Total/NA	Water	410.4	
LCS 480-489045/28	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 489120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	9038	
480-157949-2	310AW	Total/NA	Ground Water	9038	
480-157949-3	617A	Total/NA	Ground Water	9038	
480-157949-4	617C	Total/NA	Ground Water	9038	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	9038	
MB 480-489120/12	Method Blank	Total/NA	Water	9038	

General Chemistry (Continued)

Analysis Batch: 489120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-489120/48	Method Blank	Total/NA	Water	9038	
MB 480-489120/77	Method Blank	Total/NA	Water	9038	
LCS 480-489120/11	Lab Control Sample	Total/NA	Water	9038	
LCS 480-489120/47	Lab Control Sample	Total/NA	Water	9038	
LCS 480-489120/76	Lab Control Sample	Total/NA	Water	9038	
480-157949-2 MS	310AW	Total/NA	Ground Water	9038	
480-157949-2 MSD	310AW	Total/NA	Ground Water	9038	
480-157949-5 MS	DUP-GW-03	Total/NA	Ground Water	9038	
480-157949-5 MSD	DUP-GW-03	Total/NA	Ground Water	9038	

Analysis Batch: 489247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-4	DUP-GW-04	Total/NA	Ground Water	SM 2540D	
MB 480-489247/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489247/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157992-4 DU	DUP-GW-04	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 489272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	SM 2540C	
MB 480-489272/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489272/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-158239-1 DU	618AR	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 489321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	9038	
480-157992-2	310D	Total/NA	Ground Water	9038	
480-157992-3	620C	Total/NA	Ground Water	9038	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	9038	
480-157992-5	W9-1E	Total/NA	Ground Water	9038	
480-157992-6	W9-2E	Total/NA	Ground Water	9038	
MB 480-489321/42	Method Blank	Total/NA	Water	9038	
MB 480-489321/65	Method Blank	Total/NA	Water	9038	
LCS 480-489321/41	Lab Control Sample	Total/NA	Water	9038	
LCS 480-489321/64	Lab Control Sample	Total/NA	Water	9038	
480-157992-1 MS	310C	Total/NA	Ground Water	9038	
480-157992-1 MSD	310C	Total/NA	Ground Water	9038	
480-157992-2 MS	310D	Total/NA	Ground Water	9038	
480-157992-2 MSD	310D	Total/NA	Ground Water	9038	

Analysis Batch: 489358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-2	310D	Total/NA	Ground Water	SM 2540C	
MB 480-489358/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489358/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-157992-2 DU	310D	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 489387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-2	1134B	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 489387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-489387/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489387/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 489520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	353.2	
480-158239-2	1134B	Total/NA	Water	353.2	

Analysis Batch: 489528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	9251	
480-158239-2	1134B	Total/NA	Water	9251	
MB 480-489528/12	Method Blank	Total/NA	Water	9251	
LCS 480-489528/13	Lab Control Sample	Total/NA	Water	9251	
480-158239-1 MS	618AR	Total/NA	Ground Water	9251	
480-158239-1 MSD	618AR	Total/NA	Ground Water	9251	
480-158239-2 MS	1134B	Total/NA	Water	9251	
480-158239-2 MSD	1134B	Total/NA	Water	9251	

Analysis Batch: 489529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	310.2	
480-158239-2	1134B	Total/NA	Water	310.2	
MB 480-489529/20	Method Blank	Total/NA	Water	310.2	
MB 480-489529/44	Method Blank	Total/NA	Water	310.2	
LCS 480-489529/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-489529/45	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 489536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	9038	
480-158239-2	1134B	Total/NA	Water	9038	
MB 480-489536/40	Method Blank	Total/NA	Water	9038	
LCS 480-489536/39	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 489550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	353.2	
480-158314-2	624B	Total/NA	Ground Water	353.2	
480-158314-3	626B	Total/NA	Ground Water	353.2	

Analysis Batch: 489636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	SM 5310C	
480-158239-2	1134B	Total/NA	Water	SM 5310C	
MB 480-489636/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-489636/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-158239-2 MS	1134B	Total/NA	Water	SM 5310C	
480-158239-2 MSD	1134B	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 489696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	SM 2540D	
480-158239-2	1134B	Total/NA	Water	SM 2540D	
MB 480-489696/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489696/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 489740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	9251	
480-158314-2	624B	Total/NA	Ground Water	9251	
480-158314-3	626B	Total/NA	Ground Water	9251	
MB 480-489740/12	Method Blank	Total/NA	Water	9251	
MB 480-489740/18	Method Blank	Total/NA	Water	9251	
LCS 480-489740/13	Lab Control Sample	Total/NA	Water	9251	
LCS 480-489740/19	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 489741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	310.2	
480-158314-2	624B	Total/NA	Ground Water	310.2	
480-158314-3	626B	Total/NA	Ground Water	310.2	
MB 480-489741/12	Method Blank	Total/NA	Water	310.2	
MB 480-489741/42	Method Blank	Total/NA	Water	310.2	
LCS 480-489741/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-489741/43	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 489892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	SM 2540C	
480-158314-2	624B	Total/NA	Ground Water	SM 2540C	
480-158314-3	626B	Total/NA	Ground Water	SM 2540C	
MB 480-489892/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489892/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-158314-2 DU	624B	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 489964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	410.4	
480-158314-2	624B	Total/NA	Ground Water	410.4	
MB 480-489964/27	Method Blank	Total/NA	Water	410.4	
MB 480-489964/51	Method Blank	Total/NA	Water	410.4	
LCS 480-489964/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-489964/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 489995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-2	624B	Total/NA	Ground Water	9038	
480-158314-3	626B	Total/NA	Ground Water	9038	
MB 480-489995/46	Method Blank	Total/NA	Water	9038	
LCS 480-489995/45	Lab Control Sample	Total/NA	Water	9038	

General Chemistry

Analysis Batch: 490068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	SM 2540D	
480-158314-2	624B	Total/NA	Ground Water	SM 2540D	
480-158314-3	626B	Total/NA	Ground Water	SM 2540D	
MB 480-490068/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-490068/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-158314-3 DU	626B	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 490107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-2	618CR	Total/NA	Ground Water	SM 2540D	
MB 480-490107/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-490107/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 490179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	SM 5310C	
480-158314-2	624B	Total/NA	Ground Water	SM 5310C	
480-158314-3	626B	Total/NA	Ground Water	SM 5310C	
MB 480-490179/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-490179/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 490219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	9038	
480-158419-1	620A	Total/NA	Ground Water	9038	
480-158419-2	618CR	Total/NA	Ground Water	9038	
MB 480-490219/43	Method Blank	Total/NA	Water	9038	
LCS 480-490219/42	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 490326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-2	1134B	Total/NA	Water	SM 2540C	
480-158419-1	620A	Total/NA	Ground Water	SM 2540C	
480-158419-2	618CR	Total/NA	Ground Water	SM 2540C	
MB 480-490326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-490326/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-158419-1 DU	620A	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 490559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	350.1	
480-158419-2	618CR	Total/NA	Ground Water	350.1	
MB 480-490559/27	Method Blank	Total/NA	Water	350.1	
MB 480-490559/51	Method Blank	Total/NA	Water	350.1	
LCS 480-490559/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-490559/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 490590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-3	626B	Total/NA	Ground Water	SM 2540C	
MB 480-490590/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 490590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-490590/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 490610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	353.2	
480-158419-2	618CR	Total/NA	Ground Water	353.2	

Analysis Batch: 490626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	SM 2540D	
MB 480-490626/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-490626/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 490641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	350.1	
480-158239-2	1134B	Total/NA	Water	350.1	
480-158314-1	1040B	Total/NA	Ground Water	350.1	
480-158314-2	624B	Total/NA	Ground Water	350.1	
480-158314-3	626B	Total/NA	Ground Water	350.1	
MB 480-490641/3	Method Blank	Total/NA	Water	350.1	
LCS 480-490641/4	Lab Control Sample	Total/NA	Water	350.1	
480-158239-1 MS	618AR	Total/NA	Ground Water	350.1	

Analysis Batch: 490698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	410.4	
MB 480-490698/75	Method Blank	Total/NA	Water	410.4	
LCS 480-490698/76	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 490772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	SM 5310C	
480-158419-2	618CR	Total/NA	Ground Water	SM 5310C	
MB 480-490772/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-490772/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 491045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	9251	
480-158419-2	618CR	Total/NA	Ground Water	9251	
MB 480-491045/12	Method Blank	Total/NA	Water	9251	
LCS 480-491045/13	Lab Control Sample	Total/NA	Water	9251	
480-158419-2 MS	618CR	Total/NA	Ground Water	9251	
480-158419-2 MSD	618CR	Total/NA	Ground Water	9251	

Analysis Batch: 491046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	310.2	
480-158419-2	618CR	Total/NA	Ground Water	310.2	
MB 480-491046/12	Method Blank	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 491046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-491046/88	Method Blank	Total/NA	Water	310.2	
LCS 480-491046/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-491046/89	Lab Control Sample	Total/NA	Water	310.2	
480-158419-2 MS	618CR	Total/NA	Ground Water	310.2	
480-158419-2 MSD	618CR	Total/NA	Ground Water	310.2	

Analysis Batch: 492596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	SM 1030E	
480-157195-2	W11-1ER	Total/NA	Ground Water	SM 1030E	
480-157195-3	W11-3E	Total/NA	Ground Water	SM 1030E	
480-157195-4	W11-4E	Total/NA	Ground Water	SM 1030E	
480-157195-5	W11-5E	Total/NA	Ground Water	SM 1030E	
480-157195-6	W11-6E	Total/NA	Ground Water	SM 1030E	
480-157195-7	W11-5B	Total/NA	Ground Water	SM 1030E	
480-157259-1	W12-2E	Total/NA	Ground Water	SM 1030E	
480-157259-2	W12-3E	Total/NA	Ground Water	SM 1030E	
480-157259-3	W12-4B	Total/NA	Ground Water	SM 1030E	
480-157259-4	W12-4E	Total/NA	Ground Water	SM 1030E	
480-157327-1	101C	Total/NA	Ground Water	SM 1030E	
480-157327-2	104C	Total/NA	Ground Water	SM 1030E	
480-157327-3	104D	Total/NA	Ground Water	SM 1030E	
480-157327-4	630B	Total/NA	Ground Water	SM 1030E	
480-157327-5	630E	Total/NA	Ground Water	SM 1030E	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	SM 1030E	
480-157327-7	W11-2E	Total/NA	Ground Water	SM 1030E	
480-157327-8	W12-1B	Total/NA	Ground Water	SM 1030E	
480-157389-1	106CR	Total/NA	Ground Water	SM 1030E	
480-157389-2	106DR	Total/NA	Ground Water	SM 1030E	
480-157389-3	106WR	Total/NA	Ground Water	SM 1030E	
480-157389-4	627A	Total/NA	Ground Water	SM 1030E	
480-157389-5	628A	Total/NA	Ground Water	SM 1030E	
480-157389-6	629B	Total/NA	Ground Water	SM 1030E	
480-157389-7	629E	Total/NA	Ground Water	SM 1030E	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	SM 1030E	
480-157453-1	107BR	Total/NA	Ground Water	SM 1030E	
480-157453-2	107CR	Total/NA	Ground Water	SM 1030E	
480-157453-3	TRANS	Total/NA	Ground Water	SM 1030E	
480-157906-1	1008BR2	Total/NA	Ground Water	SM 1030E	
480-157906-2	1008ER2	Total/NA	Ground Water	SM 1030E	
480-157906-3	W12-5E	Total/NA	Ground Water	SM 1030E	
480-157949-1	1041B	Total/NA	Ground Water	SM 1030E	
480-157949-2	310AW	Total/NA	Ground Water	SM 1030E	
480-157949-3	617A	Total/NA	Ground Water	SM 1030E	
480-157949-4	617C	Total/NA	Ground Water	SM 1030E	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	SM 1030E	
480-157992-1	310C	Total/NA	Ground Water	SM 1030E	
480-157992-2	310D	Total/NA	Ground Water	SM 1030E	
480-157992-3	620C	Total/NA	Ground Water	SM 1030E	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	SM 1030E	
480-157992-5	W9-1E	Total/NA	Ground Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 492596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-6	W9-2E	Total/NA	Ground Water	SM 1030E	
480-158239-1	618AR	Total/NA	Ground Water	SM 1030E	
480-158239-2	1134B	Total/NA	Water	SM 1030E	
480-158314-1	1040B	Total/NA	Ground Water	SM 1030E	
480-158314-2	624B	Total/NA	Ground Water	SM 1030E	
480-158314-3	626B	Total/NA	Ground Water	SM 1030E	
480-158419-1	620A	Total/NA	Ground Water	SM 1030E	
480-158419-2	618CR	Total/NA	Ground Water	SM 1030E	

Analysis Batch: 492750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-2	104C	Total/NA	Ground Water	SM 2540C	
480-157327-3	104D	Total/NA	Ground Water	SM 2540C	
480-157327-4	630B	Total/NA	Ground Water	SM 2540C	
480-157327-5	630E	Total/NA	Ground Water	SM 2540C	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	SM 2540C	
MB 480-492750/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-492750/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 494567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-2	106DR	Total/NA	Ground Water	SM 2540D	
480-157389-6	629B	Total/NA	Ground Water	SM 2540D	
480-157389-7	629E	Total/NA	Ground Water	SM 2540D	
480-157453-1	107BR	Total/NA	Ground Water	SM 2540D	
MB 480-494567/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-494567/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-157389-2 DU	106DR	Total/NA	Ground Water	SM 2540D	

Biology

Analysis Batch: 488571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-3	TRANS	Total/NA	Ground Water	SM 9223B	

Field Service / Mobile Lab

Analysis Batch: 485610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157195-1	W11-1B	Total/NA	Ground Water	Field Sampling	
480-157195-2	W11-1ER	Total/NA	Ground Water	Field Sampling	
480-157195-3	W11-3E	Total/NA	Ground Water	Field Sampling	
480-157195-4	W11-4E	Total/NA	Ground Water	Field Sampling	
480-157195-5	W11-5E	Total/NA	Ground Water	Field Sampling	
480-157195-6	W11-6E	Total/NA	Ground Water	Field Sampling	
480-157195-7	W11-5B	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 485880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-1	W12-2E	Total/NA	Ground Water	Field Sampling	
480-157259-2	W12-3E	Total/NA	Ground Water	Field Sampling	
480-157259-3	W12-4B	Total/NA	Ground Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 485880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157259-4	W12-4E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 486111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157327-1	101C	Total/NA	Ground Water	Field Sampling	
480-157327-2	104C	Total/NA	Ground Water	Field Sampling	
480-157327-3	104D	Total/NA	Ground Water	Field Sampling	
480-157327-4	630B	Total/NA	Ground Water	Field Sampling	
480-157327-5	630E	Total/NA	Ground Water	Field Sampling	
480-157327-6	DUP-GW-01	Total/NA	Ground Water	Field Sampling	
480-157327-7	W11-2E	Total/NA	Ground Water	Field Sampling	
480-157327-8	W12-1B	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 486538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157453-1	107BR	Total/NA	Ground Water	Field Sampling	
480-157453-2	107CR	Total/NA	Ground Water	Field Sampling	
480-157453-3	TRANS	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 486561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157389-1	106CR	Total/NA	Ground Water	Field Sampling	
480-157389-2	106DR	Total/NA	Ground Water	Field Sampling	
480-157389-3	106WR	Total/NA	Ground Water	Field Sampling	
480-157389-4	627A	Total/NA	Ground Water	Field Sampling	
480-157389-5	628A	Total/NA	Ground Water	Field Sampling	
480-157389-6	629B	Total/NA	Ground Water	Field Sampling	
480-157389-7	629E	Total/NA	Ground Water	Field Sampling	
480-157389-8	DUP-GW-02	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 488050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157906-1	1008BR2	Total/NA	Ground Water	Field Sampling	
480-157906-2	1008ER2	Total/NA	Ground Water	Field Sampling	
480-157906-3	W12-5E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 488171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157949-1	1041B	Total/NA	Ground Water	Field Sampling	
480-157949-2	310AW	Total/NA	Ground Water	Field Sampling	
480-157949-3	617A	Total/NA	Ground Water	Field Sampling	
480-157949-4	617C	Total/NA	Ground Water	Field Sampling	
480-157949-5	DUP-GW-03	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 488388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-1	310C	Total/NA	Ground Water	Field Sampling	
480-157992-2	310D	Total/NA	Ground Water	Field Sampling	
480-157992-3	620C	Total/NA	Ground Water	Field Sampling	
480-157992-4	DUP-GW-04	Total/NA	Ground Water	Field Sampling	
480-157992-5	W9-1E	Total/NA	Ground Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 488388 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157992-6	W9-2E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 489269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158239-1	618AR	Total/NA	Ground Water	Field Sampling	
480-158239-2	1134B	Total/NA	Water	Field Sampling	

Analysis Batch: 489431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158314-1	1040B	Total/NA	Ground Water	Field Sampling	
480-158314-2	624B	Total/NA	Ground Water	Field Sampling	
480-158314-3	626B	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 491913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158419-1	620A	Total/NA	Ground Water	Field Sampling	
480-158419-2	618CR	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W11-1B
Date Collected: 08/05/19 16:03
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 19:42	AMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:34	BWR	TAL SAV
Total/NA	Analysis	310.2		1	485952	08/07/19 19:38	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 15:37	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:00	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:43	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 00:56	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 16:03	FLD	TAL BUF

Client Sample ID: W11-1ER
Date Collected: 08/05/19 14:39
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 19:46	AMH	TAL BUF
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 01:49	BWR	TAL SAV
Total/NA	Analysis	310.2		2	485952	08/07/19 19:50	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 15:38	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 15:30	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:43	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 02:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 14:39	FLD	TAL BUF

Client Sample ID: W11-3E
Date Collected: 08/05/19 13:58
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 19:50	AMH	TAL BUF

Client Sample ID: W11-3E

Lab Sample ID: 480-157195-3

Date Collected: 08/05/19 13:58

Matrix: Ground Water

Date Received: 08/06/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 01:53	BWR	TAL SAV
Total/NA	Analysis	310.2		2	485952	08/07/19 20:40	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 17:36	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:02	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:51	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 03:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 13:58	FLD	TAL BUF

Client Sample ID: W11-4E

Lab Sample ID: 480-157195-4

Date Collected: 08/05/19 12:07

Matrix: Ground Water

Date Received: 08/06/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 20:05	AMH	TAL BUF
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486193	08/08/19 13:57	AMH	TAL BUF
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 01:45	BWR	TAL SAV
Total/NA	Analysis	310.2		4	485952	08/07/19 20:40	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 15:44	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:02	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:51	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 03:26	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 12:07	FLD	TAL BUF

Client Sample ID: W11-5E

Lab Sample ID: 480-157195-5

Date Collected: 08/05/19 12:34

Matrix: Ground Water

Date Received: 08/06/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 20:08	AMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W11-5E

Date Collected: 08/05/19 12:34
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486193	08/08/19 14:01	AMH	TAL BUF
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 01:37	BWR	TAL SAV
Total/NA	Analysis	310.2		1	485952	08/07/19 20:33	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 17:37	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:29	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:51	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 03:41	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 12:34	FLD	TAL BUF

Client Sample ID: W11-6E

Date Collected: 08/05/19 12:55
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 20:12	AMH	TAL BUF
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486193	08/08/19 14:05	AMH	TAL BUF
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 01:41	BWR	TAL SAV
Total/NA	Analysis	310.2		2	485952	08/07/19 20:03	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 13:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 15:46	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:29	KEB	TAL BUF
Total/NA	Analysis	9251		1	485953	08/07/19 19:51	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 03:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 12:55	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W11-5B

Date Collected: 08/05/19 12:07
Date Received: 08/06/19 09:00

Lab Sample ID: 480-157195-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486051	08/07/19 20:16	AMH	TAL BUF
Total/NA	Prep	3005A			485669	08/07/19 07:45	JAL	TAL BUF
Total/NA	Analysis	6010C		1	486193	08/08/19 14:19	AMH	TAL BUF
Total/NA	Prep	3010A			582196	08/14/19 13:47	AJR	TAL SAV
Total/NA	Analysis	6020A		1	582487	08/16/19 02:04	BWR	TAL SAV
Total/NA	Analysis	310.2		1	485952	08/07/19 19:45	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485614	08/06/19 14:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485680	08/06/19 15:48	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:29	KEB	TAL BUF
Total/NA	Analysis	9251		1	486138	08/08/19 19:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	485996	08/08/19 09:05	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	485831	08/07/19 11:53	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 04:41	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485610	08/05/19 12:07	FLD	TAL BUF

Client Sample ID: W12-2E

Date Collected: 08/06/19 15:01
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487130	08/14/19 12:43	EMB	TAL BUF
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486879	08/13/19 14:08	EMB	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:38	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486139	08/08/19 19:45	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485899	08/07/19 15:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485933	08/07/19 14:48	CLT	TAL BUF
Total/NA	Analysis	9038		1	486606	08/12/19 17:32	SRW	TAL BUF
Total/NA	Analysis	9251		1	486138	08/08/19 19:11	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486058	08/08/19 11:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486546	08/12/19 14:08	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 05:40	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485880	08/06/19 15:01	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W12-3E

Date Collected: 08/06/19 12:32
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487130	08/14/19 12:47	EMB	TAL BUF
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486879	08/13/19 14:11	EMB	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:42	BWR	TAL SAV
Total/NA	Analysis	310.2		3	486139	08/08/19 20:58	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485899	08/07/19 15:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485933	08/07/19 15:57	CLT	TAL BUF
Total/NA	Analysis	9038		1	486606	08/12/19 17:32	SRW	TAL BUF
Total/NA	Analysis	9251		1	486138	08/08/19 19:11	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486058	08/08/19 11:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486546	08/12/19 14:08	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 05:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485880	08/06/19 12:32	FLD	TAL BUF

Client Sample ID: W12-4B

Date Collected: 08/06/19 14:10
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487130	08/14/19 13:02	EMB	TAL BUF
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486879	08/13/19 14:15	EMB	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:45	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486139	08/08/19 19:45	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485899	08/07/19 15:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485933	08/07/19 14:50	CLT	TAL BUF
Total/NA	Analysis	9038		1	486606	08/12/19 18:17	SRW	TAL BUF
Total/NA	Analysis	9251		1	486138	08/08/19 19:11	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486058	08/08/19 11:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486546	08/12/19 14:08	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 06:10	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485880	08/06/19 14:10	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W12-4E

Date Collected: 08/06/19 13:12
Date Received: 08/07/19 09:00

Lab Sample ID: 480-157259-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	487130	08/14/19 13:06	EMB	TAL BUF
Total/NA	Prep	3005A			485919	08/12/19 09:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486879	08/13/19 14:19	EMB	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:49	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486139	08/08/19 19:45	SRW	TAL BUF
Total/NA	Analysis	350.1		1	485899	08/07/19 15:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	485933	08/07/19 15:58	CLT	TAL BUF
Total/NA	Analysis	410.4		1	486365	08/10/19 10:42	EAG	TAL BUF
Total/NA	Analysis	9038		1	486615	08/12/19 22:43	SRW	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 11:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486058	08/08/19 11:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486546	08/12/19 14:08	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	487888	08/17/19 06:25	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	485880	08/06/19 13:12	FLD	TAL BUF

Client Sample ID: 101C

Date Collected: 08/07/19 16:08
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:14	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:53	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486266	08/09/19 10:43	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 16:49	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:29	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 10:41	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486434	08/12/19 08:39	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486772	08/13/19 14:14	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/19/19 21:32	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 16:08	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 104C
Date Collected: 08/07/19 12:32
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:32	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 18:57	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486266	08/09/19 11:11	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 17:21	RLM	TAL BUF
Total/NA	Analysis	9038		1	486606	08/12/19 18:17	SRW	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 10:41	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	492750	09/18/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486224	08/09/19 10:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/19/19 21:49	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 12:32	FLD	TAL BUF

Client Sample ID: 104D
Date Collected: 08/07/19 12:08
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:36	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:01	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486266	08/09/19 10:43	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 16:52	RLM	TAL BUF
Total/NA	Analysis	9038		1	486606	08/12/19 18:17	SRW	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 10:41	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	492750	09/18/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486224	08/09/19 10:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 09:19	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 12:08	FLD	TAL BUF

Client Sample ID: 630B
Date Collected: 08/07/19 15:23
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:39	LMH	TAL BUF

Client Sample ID: 630B

Lab Sample ID: 480-157327-4

Date Collected: 08/07/19 15:23

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:12	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486266	08/09/19 10:43	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 16:53	RLM	TAL BUF
Total/NA	Analysis	410.4		1	486365	08/10/19 11:20	EAG	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:06	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 11:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	492750	09/18/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486224	08/09/19 10:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 10:08	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 15:23	FLD	TAL BUF

Client Sample ID: 630E

Lab Sample ID: 480-157327-5

Date Collected: 08/07/19 14:34

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:43	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:16	BWR	TAL SAV
Total/NA	Analysis	310.2		1	486266	08/09/19 10:43	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:50	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 17:23	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:06	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 10:41	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	492750	09/18/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486224	08/09/19 10:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 10:25	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 14:34	FLD	TAL BUF

Client Sample ID: DUP-GW-01

Lab Sample ID: 480-157327-6

Date Collected: 08/07/19 12:08

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 20:58	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:20	BWR	TAL SAV

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: DUP-GW-01

Lab Sample ID: 480-157327-6

Date Collected: 08/07/19 12:08

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.2		1	486266	08/09/19 11:31	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:51	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 17:24	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 15:40	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 11:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	492750	09/18/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486224	08/09/19 10:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 10:41	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 12:08	FLD	TAL BUF

Client Sample ID: W11-2E

Lab Sample ID: 480-157327-7

Date Collected: 08/07/19 11:48

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:02	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:23	BWR	TAL SAV
Total/NA	Analysis	310.2		2	486266	08/09/19 11:21	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:51	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486128	08/08/19 16:56	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:42	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 11:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486434	08/12/19 08:39	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486772	08/13/19 14:14	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 10:58	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 11:48	FLD	TAL BUF

Client Sample ID: W12-1B

Lab Sample ID: 480-157327-8

Date Collected: 08/07/19 13:20

Matrix: Ground Water

Date Received: 08/08/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:05	LMH	TAL BUF
Total/NA	Prep	3010A			583186	08/20/19 17:58	PG	TAL SAV
Total/NA	Analysis	6020A		1	583656	08/22/19 19:27	BWR	TAL SAV
Total/NA	Analysis	310.2		2	486266	08/09/19 11:21	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486113	08/08/19 14:52	CLT	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W12-1B
Date Collected: 08/07/19 13:20
Date Received: 08/08/19 09:00

Lab Sample ID: 480-157327-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	486128	08/08/19 16:57	RLM	TAL BUF
Total/NA	Analysis	9038		1	486438	08/11/19 12:04	KEB	TAL BUF
Total/NA	Analysis	9251		1	486265	08/09/19 11:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486434	08/12/19 08:39	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486772	08/13/19 14:14	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 12:20	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486111	08/07/19 13:20	FLD	TAL BUF

Client Sample ID: 106CR
Date Collected: 08/08/19 15:17
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:09	LMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:38	BJB	TAL SAV
Total/NA	Analysis	310.2		3	486844	08/13/19 14:04	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 12:33	RLM	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF
Total/NA	Analysis	9038		1	486615	08/12/19 22:43	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486579	08/12/19 16:26	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 13:09	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 15:17	FLD	TAL BUF

Client Sample ID: 106DR
Date Collected: 08/08/19 14:30
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:13	LMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:34	BJB	TAL SAV
Total/NA	Analysis	310.2		4	486844	08/13/19 14:05	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 12:34	RLM	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 106DR
Date Collected: 08/08/19 14:30
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	486615	08/12/19 22:43	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:01	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	494567	09/27/19 13:22	T1S	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 13:26	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 14:30	FLD	TAL BUF

Client Sample ID: 106WR
Date Collected: 08/08/19 13:35
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:16	LMH	TAL BUF
Total/NA	Prep	3010A			585028	09/06/19 12:00	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585491	09/09/19 14:53	BJB	TAL SAV
Total/NA	Analysis	310.2		2	486844	08/13/19 14:13	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:01	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 13:15	RLM	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF
Total/NA	Analysis	9038		1	486615	08/12/19 22:43	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	487320	08/15/19 16:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 13:42	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 13:35	FLD	TAL BUF

Client Sample ID: 627A
Date Collected: 08/08/19 14:50
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:20	LMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:42	BJB	TAL SAV
Total/NA	Analysis	310.2		1	486844	08/13/19 14:03	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 13:16	RLM	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 627A
Date Collected: 08/08/19 14:50
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	486615	08/12/19 22:43	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 13:59	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 14:50	FLD	TAL BUF

Client Sample ID: 628A
Date Collected: 08/08/19 14:15
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:28	LMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:46	BJB	TAL SAV
Total/NA	Analysis	310.2		1	486844	08/13/19 14:03	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:03	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 12:37	RLM	TAL BUF
Total/NA	Analysis	9038		1	486615	08/12/19 22:35	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488063	08/20/19 14:15	RJS	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 14:15	FLD	TAL BUF

Client Sample ID: 629B
Date Collected: 08/08/19 12:58
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:24	LMH	TAL BUF
Total/NA	Prep	3010A			585028	09/06/19 12:00	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585491	09/09/19 14:39	BJB	TAL SAV
Total/NA	Analysis	310.2		1	487110	08/14/19 15:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:04	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 12:38	RLM	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF
Total/NA	Analysis	9038		1	486910	08/13/19 15:02	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 629B
Date Collected: 08/08/19 12:58
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	487517	08/16/19 12:35	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	494567	09/27/19 13:22	T1S	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488515	08/22/19 00:10	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 12:58	FLD	TAL BUF

Client Sample ID: 629E
Date Collected: 08/08/19 11:30
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:42	LMH	TAL BUF
Total/NA	Prep	3010A			585028	09/06/19 12:00	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585491	09/09/19 14:49	BJB	TAL SAV
Total/NA	Analysis	310.2		2	486844	08/13/19 14:13	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 13:17	RLM	TAL BUF
Total/NA	Analysis	9038		1	486615	08/12/19 20:44	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:15	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	494567	09/27/19 13:22	T1S	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488515	08/22/19 00:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 11:30	FLD	TAL BUF

Client Sample ID: DUP-GW-02
Date Collected: 08/08/19 12:58
Date Received: 08/09/19 09:00

Lab Sample ID: 480-157389-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486344	08/12/19 09:10	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486688	08/12/19 21:46	LMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:31	BJB	TAL SAV
Total/NA	Analysis	310.2		1	486844	08/13/19 14:03	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:06	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486290	08/09/19 12:46	RLM	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: DUP-GW-02

Lab Sample ID: 480-157389-8

Date Collected: 08/08/19 12:58
Matrix: Ground Water
Date Received: 08/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	486910	08/13/19 15:02	KEB	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:15	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486697	08/13/19 10:16	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	486994	08/14/19 12:29	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488515	08/22/19 00:39	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	486561	08/08/19 12:58	FLD	TAL BUF

Client Sample ID: 107BR

Lab Sample ID: 480-157453-1

Date Collected: 08/09/19 14:25
Matrix: Ground Water
Date Received: 08/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486630	08/13/19 08:03	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486887	08/13/19 21:37	AMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:19	BJB	TAL SAV
Total/NA	Analysis	310.2		4	486844	08/13/19 14:13	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:55	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486373	08/10/19 12:37	BEF	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF
Total/NA	Analysis	9038		1	486910	08/13/19 15:02	KEB	TAL BUF
Total/NA	Analysis	9251		2	487109	08/14/19 15:39	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486736	08/13/19 12:38	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	494567	09/27/19 13:22	T1S	TAL BUF
Total/NA	Analysis	SM 2540D		1	487014	08/14/19 13:22	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/23/19 23:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	486538	08/09/19 14:25	FLD	TAL BUF

Client Sample ID: 107CR

Lab Sample ID: 480-157453-2

Date Collected: 08/09/19 13:22
Matrix: Ground Water
Date Received: 08/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486630	08/13/19 08:03	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486887	08/13/19 22:07	AMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:27	BJB	TAL SAV
Total/NA	Analysis	310.2		3	486844	08/13/19 14:13	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486373	08/10/19 14:05	BEF	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 107CR
Date Collected: 08/09/19 13:22
Date Received: 08/10/19 09:15

Lab Sample ID: 480-157453-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	486615	08/12/19 22:35	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:15	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486736	08/13/19 12:38	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	487931	08/20/19 14:43	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	487014	08/14/19 13:22	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488515	08/22/19 03:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	486538	08/09/19 13:22	FLD	TAL BUF

Client Sample ID: TRANS
Date Collected: 08/09/19 15:10
Date Received: 08/10/19 09:15

Lab Sample ID: 480-157453-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			486630	08/13/19 08:03	EMB	TAL BUF
Total/NA	Analysis	6010C		1	486887	08/13/19 22:10	AMH	TAL BUF
Total/NA	Prep	3010A			583282	08/21/19 12:12	AJR	TAL SAV
Total/NA	Analysis	6020A		1	583634	08/22/19 19:23	BJB	TAL SAV
Total/NA	Analysis	310.2		1	486844	08/13/19 14:20	SRW	TAL BUF
Total/NA	Analysis	350.1		1	486487	08/12/19 10:32	CLT	TAL BUF
Total/NA	Analysis	353.2		1	486368	08/10/19 12:37	BEF	TAL BUF
Total/NA	Analysis	353.2		1	486373	08/10/19 14:05	BEF	TAL BUF
Total/NA	Analysis	410.4		1	486380	08/11/19 09:47	EAG	TAL BUF
Total/NA	Analysis	9038		1	487493	08/16/19 12:20	SRW	TAL BUF
Total/NA	Analysis	9251		1	486843	08/13/19 14:22	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	486955	08/14/19 10:39	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	487014	08/14/19 13:22	BBB	TAL BUF
Total/NA	Analysis	SM 5310C		1	488515	08/22/19 04:17	CLA	TAL BUF
Total/NA	Analysis	SM 9223B		1	488571	08/10/19 18:00	CTB	KAT
Total/NA	Analysis	Field Sampling		1	486538	08/09/19 15:10	FLD	TAL BUF

Client Sample ID: 1008BR2
Date Collected: 08/19/19 12:40
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488645	08/23/19 12:31	AMH	TAL BUF
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488539	08/22/19 15:02	LMH	TAL BUF
Total/NA	Prep	3010A			584125	08/27/19 12:22	AJR	TAL SAV
Total/NA	Analysis	6020A		1	584616	08/29/19 18:49	BJB	TAL SAV

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 1008BR2

Date Collected: 08/19/19 12:40
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.2		1	488438	08/22/19 16:25	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 10:16	CLT	TAL BUF
Total/NA	Analysis	353.2		1	487982	08/20/19 22:28	BEF	TAL BUF
Total/NA	Analysis	410.4		1	489045	08/27/19 11:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	488906	08/26/19 20:27	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 16:23	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488048	08/21/19 08:30	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488165	08/21/19 14:25	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 06:22	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488050	08/19/19 12:40	FLD	TAL BUF

Client Sample ID: 1008ER2

Date Collected: 08/19/19 11:44
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488645	08/23/19 12:35	AMH	TAL BUF
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488539	08/22/19 15:06	LMH	TAL BUF
Total/NA	Prep	3010A			584125	08/27/19 12:22	AJR	TAL SAV
Total/NA	Analysis	6020A		1	584616	08/29/19 18:56	BJB	TAL SAV
Total/NA	Analysis	310.2		4	488438	08/22/19 16:26	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 10:17	CLT	TAL BUF
Total/NA	Analysis	353.2		1	487982	08/20/19 22:40	BEF	TAL BUF
Total/NA	Analysis	410.4		1	489045	08/27/19 11:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	488906	08/26/19 20:27	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:38	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488048	08/21/19 08:30	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488777	08/26/19 10:32	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 06:37	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488050	08/19/19 11:44	FLD	TAL BUF

Client Sample ID: W12-5E

Date Collected: 08/19/19 14:54
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488645	08/23/19 12:38	AMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W12-5E

Date Collected: 08/19/19 14:54
Date Received: 08/20/19 14:30

Lab Sample ID: 480-157906-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488147	08/22/19 06:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488539	08/22/19 15:10	LMH	TAL BUF
Total/NA	Prep	3010A			584125	08/27/19 12:22	AJR	TAL SAV
Total/NA	Analysis	6020A		1	584616	08/29/19 18:53	BJB	TAL SAV
Total/NA	Analysis	310.2		2	488438	08/22/19 16:26	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 10:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	487982	08/20/19 19:26	BEF	TAL BUF
Total/NA	Analysis	410.4		1	488675	08/24/19 09:30	CSS	TAL BUF
Total/NA	Analysis	9038		1	488906	08/26/19 20:50	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 16:23	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488048	08/21/19 08:30	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488165	08/21/19 14:25	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 06:51	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488050	08/19/19 14:54	FLD	TAL BUF

Client Sample ID: 1041B

Date Collected: 08/20/19 13:21
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488192	08/22/19 08:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488533	08/22/19 20:18	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:33	BWR	TAL SAV
Total/NA	Analysis	310.2		3	488438	08/22/19 17:00	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 11:26	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488214	08/21/19 18:17	RLM	TAL BUF
Total/NA	Analysis	410.4		1	488739	08/25/19 14:56	DLG	TAL BUF
Total/NA	Analysis	9038		2	489120	08/27/19 20:59	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 17:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488291	08/22/19 08:22	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	488366	08/22/19 13:19	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 10:53	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488171	08/20/19 13:21	FLD	TAL BUF

Client Sample ID: 310AW

Date Collected: 08/20/19 11:12
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488192	08/22/19 08:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488533	08/22/19 20:33	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:22	BWR	TAL SAV
Total/NA	Analysis	310.2		1	488438	08/22/19 16:25	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 11:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488214	08/21/19 18:18	RLM	TAL BUF
Total/NA	Analysis	9038		1	489120	08/27/19 19:19	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 16:23	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488291	08/22/19 08:22	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	488366	08/22/19 13:19	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 11:08	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488171	08/20/19 11:12	FLD	TAL BUF

Client Sample ID: 617A

Date Collected: 08/20/19 13:46
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488192	08/22/19 08:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488533	08/22/19 20:37	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:37	BWR	TAL SAV
Total/NA	Analysis	310.2		2	488438	08/22/19 16:26	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 11:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488214	08/21/19 18:20	RLM	TAL BUF
Total/NA	Analysis	410.4		1	488739	08/25/19 14:04	DLG	TAL BUF
Total/NA	Analysis	9038		1	489120	08/27/19 21:12	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 17:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488291	08/22/19 08:22	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	488366	08/22/19 13:19	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 11:23	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488171	08/20/19 13:46	FLD	TAL BUF

Client Sample ID: 617C

Date Collected: 08/20/19 12:49
Date Received: 08/21/19 09:40

Lab Sample ID: 480-157949-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488192	08/22/19 08:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488533	08/22/19 20:41	LMH	TAL BUF

Client Sample ID: 617C

Lab Sample ID: 480-157949-4

Date Collected: 08/20/19 12:49

Matrix: Ground Water

Date Received: 08/21/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:26	BWR	TAL SAV
Total/NA	Analysis	310.2		2	488438	08/22/19 16:26	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 11:29	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488214	08/21/19 18:21	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489045	08/27/19 11:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	489120	08/27/19 19:22	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 17:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488291	08/22/19 08:22	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	488366	08/22/19 13:19	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 12:08	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488171	08/20/19 12:49	FLD	TAL BUF

Client Sample ID: DUP-GW-03

Lab Sample ID: 480-157949-5

Date Collected: 08/20/19 12:49

Matrix: Ground Water

Date Received: 08/21/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488192	08/22/19 08:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488533	08/22/19 20:45	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:30	BWR	TAL SAV
Total/NA	Analysis	310.2		2	488438	08/22/19 16:42	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488376	08/22/19 11:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488214	08/21/19 18:26	RLM	TAL BUF
Total/NA	Analysis	9038		1	489120	08/27/19 20:53	SRW	TAL BUF
Total/NA	Analysis	9251		1	488437	08/22/19 17:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488291	08/22/19 08:22	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	488366	08/22/19 13:19	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 12:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488171	08/20/19 12:49	FLD	TAL BUF

Client Sample ID: 310C

Lab Sample ID: 480-157992-1

Date Collected: 08/21/19 11:25

Matrix: Ground Water

Date Received: 08/22/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 17:17	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 03:56	BWR	TAL SAV

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 310C
Date Collected: 08/21/19 11:25
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.2		1	488908	08/26/19 21:12	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488506	08/23/19 08:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 21:18	RLM	TAL BUF
Total/NA	Analysis	9038		1	489321	08/28/19 19:37	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488496	08/23/19 08:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	488777	08/26/19 10:32	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 16:38	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 11:25	FLD	TAL BUF

Client Sample ID: 310D
Date Collected: 08/21/19 12:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 17:36	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:15	BWR	TAL SAV
Total/NA	Analysis	310.2		1	488908	08/26/19 21:12	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488506	08/23/19 08:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 21:19	RLM	TAL BUF
Total/NA	Analysis	9038		1	489321	08/28/19 20:00	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488496	08/23/19 08:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540C		1	489358	08/29/19 08:06	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488777	08/26/19 10:32	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 16:53	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 12:22	FLD	TAL BUF

Client Sample ID: 620C
Date Collected: 08/21/19 13:07
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 17:40	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:18	BWR	TAL SAV
Total/NA	Analysis	310.2		1	488908	08/26/19 21:49	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 620C
Date Collected: 08/21/19 13:07
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	488506	08/23/19 08:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 19:38	RLM	TAL BUF
Total/NA	Analysis	9038		1	489321	08/28/19 19:37	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:10	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488496	08/23/19 08:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	488777	08/26/19 10:32	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 17:07	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 13:07	FLD	TAL BUF

Client Sample ID: DUP-GW-04
Date Collected: 08/21/19 12:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 17:55	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 03:37	BWR	TAL SAV
Total/NA	Analysis	310.2		1	488908	08/26/19 22:00	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488506	08/23/19 08:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 21:22	RLM	TAL BUF
Total/NA	Analysis	9038		1	489321	08/28/19 20:00	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488496	08/23/19 08:29	BBB	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488613	08/23/19 17:22	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 12:22	FLD	TAL BUF

Client Sample ID: W9-1E
Date Collected: 08/21/19 10:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 17:59	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:00	BWR	TAL SAV
Total/NA	Analysis	310.2		2	488908	08/26/19 21:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488506	08/23/19 08:46	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 19:40	RLM	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: W9-1E

Date Collected: 08/21/19 10:22
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	489321	08/28/19 20:14	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488551	08/23/19 11:42	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488777	08/26/19 10:32	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/23/19 20:40	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 10:22	FLD	TAL BUF

Client Sample ID: W9-2E

Date Collected: 08/21/19 10:18
Date Received: 08/22/19 09:30

Lab Sample ID: 480-157992-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488416	08/24/19 06:35	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488724	08/24/19 18:03	LMH	TAL BUF
Total/NA	Prep	3010A			584143	08/27/19 13:37	AJR	TAL SAV
Total/NA	Analysis	6020A		1	585860	09/12/19 04:11	BWR	TAL SAV
Total/NA	Analysis	310.2		2	488908	08/26/19 21:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488506	08/23/19 08:46	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488442	08/22/19 19:43	RLM	TAL BUF
Total/NA	Analysis	9038		1	489321	08/28/19 19:40	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488551	08/23/19 11:42	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488962	08/27/19 08:24	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/23/19 21:08	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488388	08/21/19 10:18	FLD	TAL BUF

Client Sample ID: 618AR

Date Collected: 08/27/19 13:15
Date Received: 08/28/19 09:15

Lab Sample ID: 480-158239-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489309	08/29/19 09:50	JAL	TAL BUF
Total/NA	Analysis	6010C		1	489674	08/29/19 21:16	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:44	BJB	TAL SAV
Total/NA	Analysis	310.2		4	489529	08/29/19 20:06	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490641	09/06/19 12:14	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489520	08/28/19 19:13	BEF	TAL BUF
Total/NA	Analysis	410.4		1	489964	09/03/19 13:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	489536	08/30/19 00:10	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 618AR

Date Collected: 08/27/19 13:15
Date Received: 08/28/19 09:15

Lab Sample ID: 480-158239-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	489528	08/29/19 20:04	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489272	08/28/19 14:52	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489696	08/30/19 15:27	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	489636	08/29/19 20:02	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489269	08/27/19 13:15	FLD	TAL BUF

Client Sample ID: 1134B

Date Collected: 08/27/19 15:41
Date Received: 08/28/19 09:15

Lab Sample ID: 480-158239-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489309	08/29/19 09:50	JAL	TAL BUF
Total/NA	Analysis	6010C		1	489674	08/29/19 21:20	LMH	TAL BUF
Total/NA	Prep	3010A			586945	09/19/19 19:18	PG	TAL SAV
Total/NA	Analysis	6020A		1	587311	09/21/19 14:00	BWR	TAL SAV
Total/NA	Analysis	310.2		2	489529	08/29/19 20:47	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490641	09/06/19 12:16	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489520	08/28/19 19:14	BEF	TAL BUF
Total/NA	Analysis	9038		1	489536	08/30/19 00:10	SRW	TAL BUF
Total/NA	Analysis	9251		1	489528	08/29/19 20:04	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489387	08/29/19 09:43	ZFM	TAL BUF
Total/NA	Analysis	SM 2540C		1	490326	09/05/19 10:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	489696	08/30/19 15:27	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	489636	08/29/19 20:34	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489269	08/27/19 15:41	FLD	TAL BUF

Client Sample ID: 1040B

Date Collected: 08/28/19 14:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489712	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490285	09/04/19 17:38	AMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 05:39	BJB	TAL SAV
Total/NA	Analysis	310.2		1	489741	08/30/19 19:58	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490641	09/06/19 12:17	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489550	08/30/19 05:58	BEF	TAL BUF
Total/NA	Analysis	9038		1	490219	09/04/19 18:51	SRW	TAL BUF
Total/NA	Analysis	9251		1	489740	08/30/19 19:56	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 1040B
Date Collected: 08/28/19 14:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489892	09/03/19 11:08	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	490179	08/30/19 23:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489431	08/28/19 14:56	KEK2	TAL BUF

Client Sample ID: 624B
Date Collected: 08/28/19 14:02
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489712	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490285	09/04/19 18:08	AMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 05:21	BJB	TAL SAV
Total/NA	Analysis	310.2		4	489741	08/30/19 20:31	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490641	09/06/19 12:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489550	08/30/19 00:02	BEF	TAL BUF
Total/NA	Analysis	410.4		1	489964	09/03/19 13:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	489995	09/03/19 15:19	SRW	TAL BUF
Total/NA	Analysis	9251		1	489740	08/30/19 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489892	09/03/19 11:08	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	490179	08/30/19 23:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489431	08/28/19 14:02	KEK2	TAL BUF

Client Sample ID: 626B
Date Collected: 08/28/19 11:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489712	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490285	09/04/19 18:12	AMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:08	BJB	TAL SAV
Total/NA	Analysis	310.2		1	489741	08/30/19 19:58	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490641	09/06/19 12:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489550	08/30/19 00:15	BEF	TAL BUF
Total/NA	Analysis	9038		1	489995	09/03/19 15:19	SRW	TAL BUF
Total/NA	Analysis	9251		1	489740	08/30/19 20:04	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 626B
Date Collected: 08/28/19 11:56
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158314-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	489892	09/03/19 11:08	ZFM	TAL BUF
Total/NA	Analysis	SM 2540C		1	490590	09/06/19 10:56	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	490179	08/30/19 23:48	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489431	08/28/19 11:56	KEK2	TAL BUF

Client Sample ID: 620A
Date Collected: 08/30/19 13:41
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158419-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489960	09/04/19 09:46	EMB	TAL BUF
Total/NA	Analysis	6010C		1	490293	09/04/19 20:59	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:19	BJB	TAL SAV
Total/NA	Analysis	310.2		2	491046	09/09/19 17:28	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490559	09/06/19 08:39	CLT	TAL BUF
Total/NA	Analysis	353.2		1	490610	09/04/19 16:01	KMF	TAL BUF
Total/NA	Analysis	410.4		1	490698	09/06/19 14:05	CSS	TAL BUF
Total/NA	Analysis	9038		1	490219	09/04/19 18:55	SRW	TAL BUF
Total/NA	Analysis	9251		1	491045	09/09/19 16:16	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	490326	09/05/19 10:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	490626	09/06/19 13:39	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	490772	09/06/19 05:35	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	491913	08/30/19 13:41	FLD	TAL BUF

Client Sample ID: 618CR
Date Collected: 08/30/19 12:22
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158419-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			489960	09/04/19 09:46	EMB	TAL BUF
Total/NA	Analysis	6010C		1	490293	09/04/19 21:02	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:22	BJB	TAL SAV
Total/NA	Analysis	310.2		1	491046	09/09/19 16:18	SRW	TAL BUF
Total/NA	Analysis	350.1		1	490559	09/06/19 08:39	CLT	TAL BUF
Total/NA	Analysis	353.2		1	490610	09/04/19 15:53	KMF	TAL BUF
Total/NA	Analysis	9038		1	490219	09/04/19 19:32	SRW	TAL BUF
Total/NA	Analysis	9251		1	491045	09/09/19 16:16	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492596	09/17/19 22:47	LMH	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Client Sample ID: 618CR
Date Collected: 08/30/19 12:22
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158419-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	490326	09/05/19 10:44	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	490107	09/04/19 11:23	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	490772	09/06/19 05:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	491913	08/30/19 12:22	FLD	TAL BUF

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Ground Water	Sulfate
9038		Water	Sulfate
9251		Ground Water	Chloride
9251		Water	Chloride
Field Sampling		Ground Water	Depth to Water from Top of Casing
Field Sampling		Ground Water	Field EH/ORP
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Ground Water Elevation
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Temperature
Field Sampling		Ground Water	Turbidity
Field Sampling		Water	Depth to Water from Top of Casing
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Ground Water Elevation
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity
SM 1030E		Ground Water	Anion/Cation Balance
SM 1030E		Ground Water	Calculated TDS
SM 1030E		Ground Water	TDS Ratio
SM 1030E		Ground Water	TDS to Conductivity Ratio
SM 1030E		Water	Anion/Cation Balance
SM 1030E		Water	Calculated TDS
SM 1030E		Water	TDS Ratio
SM 1030E		Water	TDS to Conductivity Ratio

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
SM 9223B	Coliforms, Total, and E.Coli	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-SA GW

Job ID: 480-157195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157195-1	W11-1B	Ground Water	08/05/19 16:03	08/06/19 09:00	
480-157195-2	W11-1ER	Ground Water	08/05/19 14:39	08/06/19 09:00	
480-157195-3	W11-3E	Ground Water	08/05/19 13:58	08/06/19 09:00	
480-157195-4	W11-4E	Ground Water	08/05/19 12:07	08/06/19 09:00	
480-157195-5	W11-5E	Ground Water	08/05/19 12:34	08/06/19 09:00	
480-157195-6	W11-6E	Ground Water	08/05/19 12:55	08/06/19 09:00	
480-157195-7	W11-5B	Ground Water	08/05/19 12:07	08/06/19 09:00	
480-157259-1	W12-2E	Ground Water	08/06/19 15:01	08/07/19 09:00	
480-157259-2	W12-3E	Ground Water	08/06/19 12:32	08/07/19 09:00	
480-157259-3	W12-4B	Ground Water	08/06/19 14:10	08/07/19 09:00	
480-157259-4	W12-4E	Ground Water	08/06/19 13:12	08/07/19 09:00	
480-157327-1	101C	Ground Water	08/07/19 16:08	08/08/19 09:00	
480-157327-2	104C	Ground Water	08/07/19 12:32	08/08/19 09:00	
480-157327-3	104D	Ground Water	08/07/19 12:08	08/08/19 09:00	
480-157327-4	630B	Ground Water	08/07/19 15:23	08/08/19 09:00	
480-157327-5	630E	Ground Water	08/07/19 14:34	08/08/19 09:00	
480-157327-6	DUP-GW-01	Ground Water	08/07/19 12:08	08/08/19 09:00	
480-157327-7	W11-2E	Ground Water	08/07/19 11:48	08/08/19 09:00	
480-157327-8	W12-1B	Ground Water	08/07/19 13:20	08/08/19 09:00	
480-157389-1	106CR	Ground Water	08/08/19 15:17	08/09/19 09:00	
480-157389-2	106DR	Ground Water	08/08/19 14:30	08/09/19 09:00	
480-157389-3	106WR	Ground Water	08/08/19 13:35	08/09/19 09:00	
480-157389-4	627A	Ground Water	08/08/19 14:50	08/09/19 09:00	
480-157389-5	628A	Ground Water	08/08/19 14:15	08/09/19 09:00	
480-157389-6	629B	Ground Water	08/08/19 12:58	08/09/19 09:00	
480-157389-7	629E	Ground Water	08/08/19 11:30	08/09/19 09:00	
480-157389-8	DUP-GW-02	Ground Water	08/08/19 12:58	08/09/19 09:00	
480-157453-1	107BR	Ground Water	08/09/19 14:25	08/10/19 09:15	
480-157453-2	107CR	Ground Water	08/09/19 13:22	08/10/19 09:15	
480-157453-3	TRANS	Ground Water	08/09/19 15:10	08/10/19 09:15	
480-157906-1	1008BR2	Ground Water	08/19/19 12:40	08/20/19 14:30	
480-157906-2	1008ER2	Ground Water	08/19/19 11:44	08/20/19 14:30	
480-157906-3	W12-5E	Ground Water	08/19/19 14:54	08/20/19 14:30	
480-157949-1	1041B	Ground Water	08/20/19 13:21	08/21/19 09:40	
480-157949-2	310AW	Ground Water	08/20/19 11:12	08/21/19 09:40	
480-157949-3	617A	Ground Water	08/20/19 13:46	08/21/19 09:40	
480-157949-4	617C	Ground Water	08/20/19 12:49	08/21/19 09:40	
480-157949-5	DUP-GW-03	Ground Water	08/20/19 12:49	08/21/19 09:40	
480-157992-1	310C	Ground Water	08/21/19 11:25	08/22/19 09:30	
480-157992-2	310D	Ground Water	08/21/19 12:22	08/22/19 09:30	
480-157992-3	620C	Ground Water	08/21/19 13:07	08/22/19 09:30	
480-157992-4	DUP-GW-04	Ground Water	08/21/19 12:22	08/22/19 09:30	
480-157992-5	W9-1E	Ground Water	08/21/19 10:22	08/22/19 09:30	
480-157992-6	W9-2E	Ground Water	08/21/19 10:18	08/22/19 09:30	
480-158239-1	618AR	Ground Water	08/27/19 13:15	08/28/19 09:15	
480-158239-2	1134B	Water	08/27/19 15:41	08/28/19 09:15	
480-158314-1	1040B	Ground Water	08/28/19 14:56	08/29/19 09:15	
480-158314-2	624B	Ground Water	08/28/19 14:02	08/29/19 09:15	
480-158314-3	626B	Ground Water	08/28/19 11:56	08/29/19 09:15	
480-158419-1	620A	Ground Water	08/30/19 13:41	08/31/19 09:00	
480-158419-2	618CR	Ground Water	08/30/19 12:22	08/31/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-157195-1
Project/Site: Crossroads ME-SA GW

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Calcium	Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Water	Total/NA	mg/L	0.030	0.05
6010C	Lead	Ground Water	Total/NA	mg/L	0.0050	0.01
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Potassium	Ground Water	Total/NA	mg/L	0.20	0.50
6010C	Potassium	Water	Total/NA	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Water	Total/NA	mg/L	0.40	1.0
6020A	Aluminum	Ground Water	Total/NA	mg/L	0.050	0.1
6020A	Aluminum	Water	Total/NA	mg/L	0.050	0.1
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
9251	Chloride	Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10
SM 2540C	Total Dissolved Solids	Water	Total/NA	mg/L	5.0	10

August 16, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM8341
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): August 09, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

08/16/2019

Date

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM8341
Waste Management -
Project: Crossroads
Client PO: 3041819
Report Date: 15-AUG-19

Lab ID: SM8341-1 **Client ID:** TRANSFER STATION **Collected Date:** 09-AUG-19 15:10:00 **Received Date:** 09-AUG-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Total Coliforms	2 /100mL	09-AUG-19	10-AUG-19 18:00:00	KM	HM	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: TEST AMERICA	KAS PM: GN	Sampled By: NA	
Project: CROSSROADS TRANS	KIMS Entry By: ~~GN~~ JCB	Delivered By: NA	
KAS Work Order#: SM 8341	KIMS Review By: GN	Received By: JCB	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8/9/19 1740	

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 5.8 — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 8341**
Katahdin Project Number
Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: Total Coliform	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	Transfer Station	8/9/2019 1510	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	8/9/19 1740				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 12, 2019
02:04 PM

Login Number: SM8341

Account: STL001
Severn Trent Laboratories

Project:

NoWeb

Quote/Incoming:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	3041819
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	5.8
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM8341-1	TRANSFER STATION	09-AUG-19 15:10	09-AUG-19			16-AUG-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	10-AUG-19			

Total Samples: *1* ***Total Analyses:*** *1*

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.3
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284
Site: Maine	SSOW#:

480-157195 Chain of Custody 3

H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N	D	S	D	D	X	
~~620C~~				Water																	
~~626B~~				Water																	
~~627A~~				Water																	
~~628A~~				Water																	
~~629E~~				Water																	
~~630E~~				Water																	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
W11-1B	8/5/19	1603	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
W11-1E	↓	1439	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓	
W11-~~1W~~ 3E	↓	1358	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	8/5/19 1800	KAS	[signature]	8/6/19 0900	TAS
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.0, 3.2

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N	D	S	D	D	X	
~~W11-3E~~				Water																	
W11-4E	8/5/19	1207	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
W11-5B	↓		↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓	
W11-5E		1234		Water																	
W11-6E	↓	1255	↓	Water	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓	
~~W12-1B~~				Water																	
~~W12-1E~~				Water																	
~~W12-2E~~				Water																	
~~W12-3E~~				Water																	
~~W12-4B~~				Water																	
~~W9-4E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/5/19 1800	KAS		8/6/19 0900	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.0, 3.2

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

480-157259 Chain of Custody

Client Information	Sampler: ADAMS/ AMAN	Lab PM: Giglia, Denise L	Carrier Tra
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com	
Company: Katahdin Analytical Services			
Address: PO BOX 540 600 Technology Way	Due Date Requested:		
City: Scarborough	TAT Requested (days):		
State, Zip: ME, 04074			
Phone:	PO #: Purchase Order Requested		
Email: nadams@katahdinlab.com	WO #:		
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284		
Site: Maine	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~620A~~				Water																	
~~629B~~				Water																	
~~630B~~ W12-4B	8/6/19	1410	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
W12-4E		1312		Water					X	2	1	1	X	2	1	1	1	1		10	
~~W12-5E~~ W12-3E		1232		Water			1	1	X	2	1	1	X	2	1	1				10	
~~TRANS~~ W12-2E		1501		Water			1	1	X	2	1	1	X	2	1	1				10	
~~107BR~~				Water																	
~~624B~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/6/19 1800	KAS		8/7/19 0900	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.8

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.3
Client Contact: Nick Adams	Phone: (207) 831-9752	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

480-157327 Chain of Custody

G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~626C~~				Water																	
~~626B~~				Water																	
~~627A~~ W11-2E	8/7/19		G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
~~628A~~ W12-1B	↓		↓	Water			1	1	X	2	1	1	X	2	1	1					
~~629E~~ 630B				Water					X	2	1	1	X	2	1		1	1			
630E				Water	↓	↓	1	1	X	2	1	1	X	2	1	1				↓	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~W11-1B~~				Water																	
~~W11-1E~~				Water																	
~~W11-2E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/7/19 1800	KAS	Wallace	8/8/19 0900	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.3, 2.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2; 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
101C	8/7/19	1608	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
~~104B~~ GW-DUP-01		1208		Water																	
104C		1232		Water																	
104D		1208		Water																	
~~106DR~~ W12-1E	8/7/19			Water		SITE DRY, NO SAMPLES															
~~107CR~~				Water																	
~~1134B~~				Water																	
~~310AW~~				Water																	
~~310C~~				Water																	
~~310D~~				Water																	
~~818CR~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/7/19 1800	KAS	Cwallace	8/8/19 0900	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.5, 2.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.3
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

480-157389 Chain of Custody

F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2; 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N	D	S	D	D	X	
~~626C~~				Water																	
~~626B~~				Water																	
627A	8/8/19	1450	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
628A	↓	1415	↓	Water			1	1	X	2	1	1	X	2	1	1					
629E		1130		Water			1	1	X	2	1	1	X	2	1	1					
~~630E~~ 629B		1258		Water	↓	↓			X	2	1	1	X	2	1	1	1	1		↓	
~~DUP-GW-01~~				Water																	
~~DUP-GW-02~~				Water																	
~~W11-1B~~				Water																	
~~W11-1E~~				Water																	
W11-2E				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/8/19 1800	KAS	[signature]	8/9/19 0900	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.0, 3.3

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.7
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 7 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~W9-2E~~				Water																	
~~DUP-GW-~~03				Water																	
~~DUP-GW-04~~				Water																	
~~1008BR2~~				Water																	
~~1008ER2~~				Water																	
~~1041B~~				Water																	
106CR	8/8/19	1517	G	Water	N	N		4	X	2	1	1	X	2	1	1	1	1		10	
106WR	↓	1335	↓	Water				4	X	2	1	1	X	2	1	1	1	1		↓	
~~617A~~ 106 DR		1430		Water			1	1	X	2	1	1	X	2	1	1					
617C DUP-GW-02	↓	1258	↓	Water	↓	↓			X	2	1	1	X	2	1	1	1	1		↓	
~~618AR~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/8/19 1800	KAS	[signature]	8/9/19 0900	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.0, 3.3

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing | TestAmerica

Client Information	Sampler: NICK ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.9
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 9 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A											
~~620A~~				Water																	
~~629B~~				Water																	
~~630B~~				Water																	
~~W12-4E~~				Water																	
~~W12-5E~~				Water																	
TRANS	8/9/19	1510	G	Water	N	N			X	2	1	1	X	2	1	1	1	1	10	*T-COLI HAS BEEN SUBBED TO KATAHDIN ON TRANS SITE.	
107BR	↓	1425	↓	Water	↓	↓			X	2	1	1	X	2	1	1	1	1	↓		
~~624B~~ 107CR	↓	1322	↓	Water	↓	↓	1	1	X	2	1	1	X	2	1	1			↓		

480-157453 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/9/19 1800	KAS	[signature]	8/10/19 0815	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.1

Ver: 01/16/2019

Page 230 of 310

9/30/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Katrina Aman	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.5
Client Contact: Nick Adams	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~W11-3E~~ W12-5E	8/19/19	1454	G	Water																	*Each site has a total of 10 bottles
~~W11-4E~~ 1008BR2	8/19/19	1240	G	Water																	
~~W11-5B~~ 1008ER2	8/19/19	1144	G	Water																	
~~W11-5E~~				Water																	
~~W11-6E~~				Water																	
~~W12-1B~~				Water																	
~~W12-1E~~				Water																	
~~W12-2E~~				Water																	
~~W12-3E~~				Water																	
~~W12-4B~~				Water																	
~~W9-1E~~				Water																	

480-157906 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Katrina Aman	8/19/19 ~~1500~~ 1700	KAS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-20-19 1430	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 #1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

480-157949 Chain of Custody

Client Information	Sampler: Agustin Loveira	Lab PM: Giglia, Denise L	Carrier Tracking No(s):
Client Contact: Nick Adams	Phone:	E-Mail: denise.giglia@testamericainc.com	

Company: Katahdin Analytical Services

Address: PO BOX 540 600 Technology Way
City: Scarborough
State, Zip: ME, 04074
Phone:
Email: nadams@katahdinlab.com
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
				Preservation Code:			S	D	N	A	N	N	N	N	N	D	S	D	D		
~~101C~~ 310 AW	8/20/19	1112		Water						2	1	1		2	1	1	1	1		10	
~~1040B~~ 617 A	8/20/19	1346		Water						2	1	1		2	1	1	1	1		10	
~~104C~~ 617 C	8/20/19	1249		Water						2	1	1		2	1	1	1	1		10	
~~104B~~ 1041B	8/20/19	1321		Water						2	1	1		2	1	1	1	1		10	
~~106DR~~ Dup-GW-03	8/20/19	1249		Water						2	1	1		2	1	1	1	1		10	
~~107CR~~				Water																	
~~1134B~~				Water																	
~~310AW~~				Water																	
~~310C~~				Water																	
310D				Water																	
~~618CR~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	8/21/19 0940	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: #1 2.8

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Katrina Aman	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.9
Client Contact: Nick Adams	Phone: (508)821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 9 of 6

Company: Katahdin Analytical Services

Address: PO BOX 540 600 Technology Way
City: Scarborough
State, Zip: ME, 04074
Phone:
Email: nadams@katahdinlab.com
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

Job #:

480-157992 Chain of Custody

H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~620A~~ 620C	8/21/19	1307	G	Water																	* Each site has 10 bottles
~~629B~~ 310D		1222	G	Water																	
~~630B~~ 310C		1125	G	Water																	
~~W12-4E~~ W9-1E		1022	G	Water																	
~~W12-5E~~ W9-2E		1018	G	Water																	
~~TRANS~~ DUP-GW-04		1222	G	Water																	
~~107BR~~				Water																	
~~624B~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/21/19 1610	KAS	[signature]	8/22/19 0936	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: #1 3.1, 3.4

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.7
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 7 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2; 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N	D	S	D	D	X	
~~W9-2F~~				Water																	
DUP-GW-03				Water																	
~~DUP-GW-04~~				Water																	
~~1008BR2~~				Water																	
~~1008ER2~~				Water																	
~~1041B~~				Water																	
~~106CR~~				Water																	
~~106WR~~				Water																	
~~617A~~				Water																	
~~617C~~ 1134B	8/27/19	1541	G	Water	N	N	1	1	X	2	1	1	X	2	1	1				10	
618AR	8/27/19	1315	G	Water	N	N			X	2	1	1	X	2	1	1	1	1		10	

480-158239 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	D Adams	8/27/19 1800	KAS	Wallace	8/28/19 0915	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.4

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

480-158314 Chain of Custody

Client Information	Sampler: LOURERO	Lab PM: Giglia, Denise L	Carrie
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com	

Company: Katahdin Analytical Services

Address: PO BOX 540 600 Technology Way
City: Scarborough
State, Zip: ME, 04074
Phone:
Email: nadams@katahdinlab.com
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~101C~~ 624B	8/28/19	1402	G	Water	N	N		1	X	2	1	1	X	2	1	1	1			10	
1040B	↓	1456	↓	Water			1	1	X	2	1	1	X	2	1	1				10	
~~104C~~ 624B		1156		Water			1	1	X	2	1	1	X	2	1	1				10	
~~104D~~				Water																	
~~106DR~~				Water																	
~~107CR~~				Water																	
~~1134B~~				Water																	
~~310AW~~				Water																	
~~310C~~				Water																	
~~310D~~				Water																	
~~618CR~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/28/19 1800	KAS	[signature]	8/29/19 0415	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.4

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.1
Client Contact: Nick Adams	Phone: (20) 831-9250	E-Mail: denise.giglia@testamer		Page: 1 of 6
Company: Katahdin Analytical Services				
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

480-158419 Chain of Custody

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecanydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (All)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N	D	S	D	D	X	
~~101C~~				Water																	
~~1040B~~				Water																	
~~104C~~				Water																	
~~104D~~				Water																	
~~106DR~~				Water																	
~~107CR~~				Water																	Please confirm
~~1134B~~				Water																	Metals lists are
~~310AW~~				Water																	correct.
~~310C~~				Water																	
~~310D~~ ~~620~~ 620A	8/30/19	1341	G	Water	N	N		1	X	2	1	1	X	2	1	1	1			10	
618CR	8/30/19	1022	G	Water	N	N	1		X	2	1	1	X	2	1	1		1		10	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/30/19 1800	RAS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/30/19 900	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2-cnt

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W-111-1B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 05 19	1512	:50	01	100	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

Sample Tube Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27254 (ft/msl)	2291 (ft)	24963 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3700 (ft)	284 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 05 19	867	158	97	00	17	-402	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/05/19	KATRINA AMAN		KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-1E

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
080519	1435	:01	.01	.01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: 1

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: 1

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	13.69	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
		2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080519	7.35	264	29.3	2.62	.65	+148.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

* UNFORTUNATELY I DIDN'T HAVE ACCURATE HISTORIC WELL DATA.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/05/19	NICK ADAMS	Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-3E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 05 19	1353	:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable B-Pressure C-Vacuum X-Other

Sample Tube Type: /

A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC): 2619.3 (ft/msl)

Depth to Water (DTW) (from TOC): 7.27 (ft)

Groundwater Elevation (site datum, from TOC): 2546.6 (ft/msl)

Total Well Depth (from TOC): 150.0 (ft)

Stick Up (from ground elevation): 3.09 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/Site requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 05 19	7.49	288	24.5	5.2	8.0	+146.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

* NOT SURE THE ACCURACY OF HISTORIC WELL INFO.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/05/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: W11-4E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
080519	1210	:03	91	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
~~2792~~ (ft/msl)	218.8 (ft)	~~2553~~ (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
~~3400~~ (ft)	~~337~~ (ft)	~~2~~ (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
080519	7.29	563	31.4	4.8	5.9	177.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

* DIDN'T HAVE RELIABLE HISTORIC WELL DATA

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/05/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: MW-5E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
080519	~~1229~~ 1229	1:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
~~2721~~ (ft/msl)	1557 (ft)	~~2616~~ 2614 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
~~3400~~ (ft)	~~33~~ 37 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080519	8.42	1171	2.29	00	1.5	381	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08,05,19	NICK ADAMS	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-6E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
080519	1250	1:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2451.3 (ft/msl)

Depth to Water (DTW) (from TOC): 16.55 (ft)

Groundwater Elevation (site datum, from TOC): 228.58 (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080519	6.42	270	26.3	2.6	6.3	-83.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

*DIDN'T HAVE RELIABLE HISTORIC WELL DATA

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08.05.19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W11-58

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08 05 19	12:42	:55	298	300 #65	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2731.9 (ft/msl)

Depth to Water (DTW) (from TOC): 28.58 (ft)

Groundwater Elevation (site datum, from TOC): 24461 (ft/msl)

Total Well Depth (from TOC): 60.00 (ft)

Stick Up (from ground elevation): 2.79 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 05 19	8.54	1466	15.9	0.00	1.10	130	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/05/19	KATRINA AMAN		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: MW-2E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 06 19	1457	:01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2689.11 (ft/msl)	8.02 (ft)	260.89 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1000 (ft)	2.41 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 06 19	6.73	31	25.1	2.0	5.7	594	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 10-15 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08.06.19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-3E

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
080619	1228	:01	01	91	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2464.2 (ft/msl)	59.5 (ft)	2404.7 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
100.0 (ft)	2.70 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080619	7.68	386	26.0	1.7	5.6	62.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08.06.19	KATRINA AMAN		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: W12-4B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
080619	1334	:35	.02	1.32	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2516 (ft/msl)
Depth to Water (DTW) (from TOC): ~~19.21~~ ~~18.73~~ 19.18 (ft)
Groundwater Elevation (site datum, from TOC): 23258 (ft/msl)
Total Well Depth (from TOC): 3900 (ft)
Stick Up (from ground elevation): 350 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080619	8.15	165	13.9	0.3	0.5	258	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

DTW = 19.18

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/06/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: MW-4E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/06/19	1308	:01	.01	.01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
25199 (ft/msl)	865 (ft)	24334 (ft/msl)	1000 (ft)	245 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/06/19	6.55	203	21.7	3.2	3.5	621	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/06/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

Site Name: CROSSROADS

Site No.: ____ Sample Point: 101C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
080719	1522	:45	02	68	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 27225 (ft/msl)

Depth to Water (DTW) (from TOC): 2346 (ft)

Groundwater Elevation (site datum, from TOC): 24879 (ft/msl)

Total Well Depth (from TOC): 4200 (ft)

Stick Up (from ground elevation): 170 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested criteria for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
080719	810	157	126	18	08	+2578	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL — **Odor:** NONE — **Color:** CLEAR — **Other:** ____

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** CALM — **Outlook:** SUNNY — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/07/19	NICK ADAMS	[signature]	KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 104C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 07 19	1424	1:03	02	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: 1 — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: 1 — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2565.0 (ft/msl)	9.13 (ft)	247.37 (ft/msl)	52.80 (ft)	1.22 (ft)	~~2~~ (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 07 19	7.53	217	19.0	1.8	6.1	419.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM — Outlook: CLOUDY — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08,07,19	NICK ADAMS	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: CLOS220405

Site No.: ____ Sample Point: 104D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 07 19	1157	:08	04	04	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: 1

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: 1

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2564.7 (ft/msl)

Depth to Water (DTW) (from TOC): 8.98 (ft)

Groundwater Elevation (site datum, from TOC): 247.49 (ft/msl)

Total Well Depth (from TOC): 52.80 (ft)

Stick Up (from ground elevation): 1.12 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consecutive readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units ____
08 07 19	8.44	1911	24.5	25	8.3	+189.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

GW-DUP-01 HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08,07,19	NICK ADAMS		KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 630B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08 07 19	1412	140	03	14	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26985 (ft/msl)	1981 (ft)	25004 (ft/msl)	5400 (ft)	395 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 cons. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 07 19	8.47	1061	13.0	4.4	0.9	-32.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: none
Color: clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: CALM
Outlook: CLOUDY
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08,07,19	Katrina Aman	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: GW-DUP-01 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (Use 24 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing ID, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or State Permit/Site requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 07 19	8 4 4	1 9 1	2 4 5	2 5	8 3	-1 8 9 8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

COLLECTED AT 1040.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08.07.19	NICK ADAMS	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 630E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
080719	1430	01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 26957 (ft/msl)
Depth to Water (DTW) (from TOC): 1027 (ft)
Groundwater Elevation (site datum, from TOC): 25930 (ft/msl)
Total Well Depth (from TOC): 1200 (ft)
Stick Up (from ground elevation): 427 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080719	654	1813	224	13	22	352	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: Calm
Outlook: cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/07/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: W11-2E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 07 19	1144	:01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26663 (ft/msl)	1051 (ft)	25612 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1200 (ft)	293 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested Range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 07 19	7.82	233	25.8	40	7.1	-172.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL — **Odor:** NONE — **Color:** CLEAR — **Other:** ____

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** CALM — **Outlook:** SUNNY — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/07/19	NICK 40 AMS		KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W12-1B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
08/07/19	1224	155	01	21	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 25207 (ft/msl)
Depth to Water (DTW) (from TOC): 979 (ft)
Groundwater Elevation (site datum, from TOC): 24228 (ft/msl)
Total Well Depth (from TOC): 1900 (ft)
Stick Up (from ground elevation): 140 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/07/19	7.66	209	9.7	0.2	0.7	-181	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: none
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: CALM
Outlook: CLOUDY
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/07/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: W12-1E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26184 (ft/msl)	1355 (ft)	24829 (ft/msl)	11100 (ft)	255 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st							
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested ranges for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 07 19							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

WELL WAS DRY. NO SAMPLES TAKEN.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/07/19	NICK ADAMS	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 106CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08/08/19	1446	:30	0.1	1.80	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2662.7 (ft/msl)

Depth to Water (DTW) (from TOC): 21.95 (ft)

Groundwater Elevation (site datum, from TOC): 2443.2 (ft/msl)

Total Well Depth (from TOC): 32.60 (ft)

Stick Up (from ground elevation): 2.63 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08/08/19	7.40	411	11.3	4.0	1.2	+160.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

pH=7.39

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 106DR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/08/19	14:09	:20	03	.88	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

Sample Tube Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2615 (ft/msl)	2200 (ft)	2415 (ft/msl)	5600 (ft)	265 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/08/19	7.14	551	10.8	4.1	0.5	-123.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 106WR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
080819	1244	:50	.01	300	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26580 (ft/msl)	2151 (ft)	24429 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2600 (ft)	267 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080819	643	370	108	106	78	-194	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 627A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
080819	1435	:10	05	05	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 24199 (ft/msl)

Depth to Water (DTW) (from TOC): 378 (ft)

Groundwater Elevation (site datum, from TOC): 23821 (ft/msl)

Total Well Depth (from TOC): 5650 (ft)

Stick Up (from ground elevation): 289 (ft)

Casing ID: 2 (in)

Casing Material: RIC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080819	792	148	189	00	67	192	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or ~~N~~

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	KATRINA AMAN	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 628A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 08 19	14:03	:09	01	05	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
24219 (ft/msl)	428 (ft)	23791 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
5150 (ft)	331 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 08 19	8.01	1607	18.2	00	2.8	90	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	KATRINA AMAN		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 629B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08 08 19	1202	:55	0.1	6.6	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2651.4 (ft/msl)

Depth to Water (DTW) (from TOC): 18.23 (ft)

Groundwater Elevation (site datum, from TOC): 2469.1 (ft/msl)

Total Well Depth (from TOC): 36.60 (ft)

Stick Up (from ground elevation): 3.75 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 08 19	7.80	1.62	16.2	1.75	2.4	45	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

DUP-GW-02 COLLECTED HERE.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	KATRINA AMAN	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 629 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
080819	1125	:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2652.8 (ft/msl)

Depth to Water (DTW) (from TOC): 16.18 (ft)

Groundwater Elevation (site datum, from TOC): 2495.0 (ft/msl)

Total Well Depth (from TOC): 21.00 (ft)

Stick Up (from ground elevation): 3.90 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
080819	7.34	248	21.6	5.6	7.5	321	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	KATRINA AMAN	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: DUP+GW-02 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: ____ A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) ____ (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 08 19	7.80	162	16.2	7.5	2.4	45	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: none Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 5-10 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CONNECTED AT ~~6308~~ 629B

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/08/19	KATRINA AMAN	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 107BR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08/09/19	1339	1:45	01	1.13	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
266.13 (ft/msl)	21.48 (ft)	244.65* (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
180.0 (ft)	2.81 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/09/19	6.59	886	15.1	6.1	0.6	+130.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

* GROUNDWATER ELEVATION = 244.65

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/09/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 107CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 09 19	1314	:05	.02	.03	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26571 (ft/msl)	21.34 (ft)	24437 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3670 (ft)	3.07 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 09 19	7.74	398	23.4	5.7	6.0	-82.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: W 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/09/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: TRANS (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/09/19	14:54	:15			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A

Sampling Device: A

A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable B-Pressure C-Vacuum X-Other ____

Sample Tube Type: /

A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) ____ (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08/09/19	8.65	135	10.9	45	3.4	+179.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: W 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/09/19	NICK ADAMS		KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: | | | | |

Sample Point: 1 0 0 8 B R 2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 19 19	12:08	:30	0.4	8.10	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B — X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2531.1 (ft/msl)	13.94 (ft)	2391.5 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
61.20 (ft)	2.52 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
08 19 19	8.44	136	14.9	0.00	5.9	-154.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/19/19	Katrina Arman	Katrina	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 1008ER2
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING ~~(Gallons)~~	ACTUAL VOL PURGED ~~(Gallons)~~	WELL VOLs PURGED
08/19/19	1139	:02	01	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
27150 (ft/msl)	1055 (ft)	26075 (ft/msl)	1906 (ft)	280 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/19/19	7.28	541	21.1	100	5.9	-76	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/19/19	Katrina Aman	Katrina	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: W12-5E
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08/19/19	1412	:40	01	132	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2611 (ft/msl)	1127 (ft)	24984 (ft/msl)	1700 (ft)	200 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/19/19	680	330	132	00	03	-78	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/19/19	Katrina Aman	Katrina	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 1041B
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
08 20 19	12:40	:40	01		

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 25468 (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): 1500 (ft)
Stick Up (from ground elevation): 248 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 20 19	610	470	202	07	37	2168	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N/A Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Unable to measure DTW since casing is at a 45 degree angle

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/20/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 310AW (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
082019	1110	:1	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27538 (ft/msl)	569 (ft)	26969 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1500 (ft)	368 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
082019	776	177	218	00	83	63	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/20/18	Agustin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 617A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/20/19	13:43	:02	.01 L	L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)	Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
268.66	6.41	262.25 KER 8/21/19	14.50	3.36	2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/20/19	7.19	313	22.9	.00	5.9	214.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal **Odor:** None **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** N/A **Outlook:** Sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/20/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 617C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
082019	1213	:35	17	18	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2.6904 (ft/msl)	1306 (ft)	25598 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
20010 (ft)	364 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
082019	739	265	184	29	04	186	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NA Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/20/19	Agustin Lovero		LAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: DUP-03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 20 19	7.39	265	18.4	2.9	0.4	186	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: None Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/20/19	Agustin Loureiro		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 310C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/21/19	1058	:25	05 L	140 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 27336 (ft/msl)
Depth to Water (DTW) (from TOC): 434 (ft)
Groundwater Elevation (site datum, from TOC): 26902 (ft/msl)
Total Well Depth (from TOC): 6190 (ft)
Stick Up (from ground elevation): 206 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/21/19	8.32	1611	9.5	01	7.5	159.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Agustin Loureyo		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 310D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08/21/19	1147	:35	:8	09	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: CB
Sampling Device: CB
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 27270 (ft/msl)
Depth to Water (DTW) (from TOC): 0.60 ~~2.12~~ (ft)
Groundwater Elevation (site datum, from TOC): 27210 (ft/msl)
Total Well Depth (from TOC): 18500 (ft)
Stick Up (from ground elevation): 150 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/21/19	7.65	172	18.1	00	10.1	114.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal
Odor: None
Color: Clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: Calm
Outlook: Cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 620C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 21 19	1220	:35	03 L	38 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26174 (ft/msl)	1077 (ft)	25097 (ft/msl)	4215 (ft)	298 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 21 19	7.9	1911	14.1	00	3.4	85	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal — Odor: ~~Odor~~ none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Agustin Loureiro	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: DUP-GW-04 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/21/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation) (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/21/19	7.65	172	18.1	0.0	1.01	140	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

DUP-GW-04

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: W9-1E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
08 21 19	10:18	:03	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Type: ✓ (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: ✓ (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26030 (ft/msl)	338 (ft)	23692 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1500 (ft)	300 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 21 19	736	268	213	00	52	1497	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Agustin Loureiro		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: W9-2E

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
08 21 19	10:14	:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2610.2 (ft/msl)	6.38 (ft)	2546.4 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
16.90 (ft)	3.20 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 21 19	7.06	226	17.7	00	3.5	710	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 Calm Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/21/19	Agostin Loureiro		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 16/8AR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/27/19	1311	:01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2672.21 (ft/msl)

Depth to Water (DTW) (from TOC): 10.65 (ft)

Groundwater Elevation (site datum, from TOC): 2561.56 (ft/msl)

Total Well Depth (from TOC): 155.0 (ft)

Stick Up (from ground elevation): 2.91 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/27/19	7.44	646	22.1	00	6.0	382	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/27/19	NICK ADAMS		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: MW-34B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/27/19	1505	:25	24	10.5	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2748.9 (ft/msl)

Depth to Water (DTW) (from TOC): 23.99 (ft)

Groundwater Elevation (site datum, from TOC): 2509.0 (ft/msl)

Total Well Depth (from TOC) *: 2000 (ft)

Stick Up (from ground elevation) *: 3.49 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/27/19	8.12	230	19	00	1.3	16	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

* WELL DATA DOESN'T SEEM ACCURATE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/27/19	KATRINA AMAN	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: ____ Sample Point: 104OB (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08/28/19	1430	:25	01	45	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: /

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2531.11 (ft/msl)	11.89 (ft)	241.22 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1900 (ft)	3.35 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/28/19	6.29	1145	12.0	50	0.6	-114	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM — Outlook: CLOUDY — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	AGUSTIN LOZADO	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 624B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (~~hrs:min~~)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08/28/19	1321	:40	01	1.80	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

Sample Tube Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2495.4 (ft/msl)	9.03 (ft)	240.51 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
32.00 (ft)	3.27 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/28/19	6.63	553	10.3	5.2	0.6	-42.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	Agustin Loureiro		KAI

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: 62GB (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
08 28 19	1115	:40	01	40	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: /

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): 2569.8 (ft/msl)

Depth to Water (DTW) (from TOC): 13.24 (ft)

Groundwater Elevation (site datum, from TOC): 2437.4 (ft/msl)

Total Well Depth (from TOC): 180.0 (ft)

Stick Up (from ground elevation): 3.09 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 28 19	5.98	65	19.8	.56	1.9	410	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	Agustin Loureiro	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | Sample Point: 620A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/30/19	1336	:01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other _____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
266.59 (ft/msl)	9.00 (ft)	257.59 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
14.50 (ft)	6.92 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/30/19	6.79	320	20.7	00	23	+408	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM — Outlook: SUNNY — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/30/19	KATRINA AMAN	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 618CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/30/19	1141	140	05 L	16 ϕ L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable B-Pressure C-Vacuum X-Other ____
Sample Tube Type:
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC): 2672 (ft/msl)
Depth to Water (DTW) (from TOC): 1617 (ft)
Groundwater Elevation (site datum, from TOC): 250955 (ft/msl)
Total Well Depth (from TOC): 6990 (ft)
Stick Up (from ground elevation): 292 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/30/19	8.11	1148	17.6	48	2.1	-513	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:
Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/30/19	KATRINA AMAN	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157195
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157195
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/07/19 02:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157259
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157259
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/08/19 03:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157327
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157327
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/09/19 05:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157389
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157389
List Number: 2
Creator: Weston, Pamela

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/10/19 11:03 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157453
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157453
List Number: 2
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/14/19 10:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157906
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157906
List Number: 2
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/21/19 10:03 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157949
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KATAHDIN
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157949
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/22/19 11:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157992
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 157992
List Number: 2
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/23/19 12:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158239
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158239
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/29/19 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158314
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158314
List Number: 2
Creator: Weston, Pamela

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/30/19 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158419
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-157195-1

Login Number: 158419
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 09/06/19 04:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-158077-1
Client Project/Site: Crossroads ME-SA Surface Water
Sampling Event: Semi-Annual Surface Water (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
9/12/2019 11:10:26 AM
Katelyn Ferguson, Project Management Assistant I
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Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Qualifiers

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-158077-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158077-1

Comments
No additional comments.

Receipt
The samples were received on 8/23/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.3º C, 3.4º C, 3.6º C and 4.0º C.

Metals
Method(s) 6010C: The Total Iron result reported for the following sample did not concur with results previously reported for this site: SW-B (480-158077-10). Reanalysis was performed, and the result confirmed.

Method(s) 6010C: The Total Sodium results reported for the following samples do not concur with results previously reported for this site: SW-101 (480-158077-2) and SW-C (480-158077-11). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Total Calcium and Magnesium results reported for the following sample do not concur with results previously reported for this site: SW-201 (480-158077-4). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Total Calcium, Magnesium, and Sodium results reported for the following sample do not concur with results previously reported for this site: SW-203 (480-158077-5). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Total Calcium, Magnesium, Potassium, and Sodium results reported for the following sample do not concur with results previously reported for this site: SW-801 (480-158077-7). Reanalysis was performed, and the results confirmed.

Method(s) 6020A: The Total Lead results reported for the following sample do not concur with results previously reported for this site: SW-B (480-158077-10). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: The results reported for the following sample do not concur with results previously reported for this site: SW-C (480-158077-11). Reanalysis was performed, and the result(s) confirmed.

Method(s) SM 2540D: The Total Suspended Solids results reported for the following sample do not concur with results previously reported for this site: SW-B (480-158077-10). Reanalysis was performed, and the result(s) confirmed. Both sets of data are reported.

Method(s) 310.2: The Alkalinity, Total results reported for the following samples do not concur with results previously reported for this site: SW-102 (480-158077-3), SW-201 (480-158077-4), SW-801 (480-158077-7), SW-A (480-158077-9) and SW-B (480-158077-10). Reanalysis was performed, and the result(s) confirmed.

Method(s) 353.2: The results reported for the following sample do not concur with results previously reported for this site: SW-A (480-158077-9). Reanalysis was performed, and the result(s) confirmed.

Method(s) 410.4: The Chemical Oxygen Demand results reported for the following samples do not concur with results previously reported for this site: SW-101 (480-158077-2), SW-102 (480-158077-3), SW-B (480-158077-10) and SW-C (480-158077-11). Reanalysis was performed, and the results confirmed.

Method(s) SM 5310C: The results reported for the following samples do not concur with results previously reported for this site: SW-102 (480-158077-3), SW-203 (480-158077-5), SW-9 (480-158077-8), SW-B (480-158077-10) and SW-C (480-158077-11). Reanalysis was performed, and the result(s) confirmed.

Method(s) 9251, SM 4500 Cl- E: The Chloride, Dissolved results reported for the following samples do not concur with results previously reported for this site: SW-801 (480-158077-7), SW-9 (480-158077-8) and SW-C (480-158077-11). Reanalysis was performed, and the

Job ID: 480-158077-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: DUP-SW-01 — Lab Sample ID: 480-158077-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	9900		150		ug/L	1		6010C	Total/NA
Iron	460		30		ug/L	1		6010C	Total/NA
Magnesium	1700		240		ug/L	1		6010C	Total/NA
Manganese	55		10		ug/L	1		6010C	Total/NA
Potassium	1200		200		ug/L	1		6010C	Total/NA
Sodium	3800		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	23		10		mg/L	1		310.2	Total/NA
Nitrate	0.070		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	39		10		mg/L	1		410.4	Total/NA
Chloride	6.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	15				%	1		SM 1030E	Total/NA
Calculated TDS	37				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	90		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	16		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Temperature	23.0				Degrees C	1		Field Sampling	Total/NA
Field pH	5.97				SU	1		Field Sampling	Total/NA
Specific Conductance	79				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	180.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.30				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-101 — Lab Sample ID: 480-158077-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	3600		150		ug/L	1		6010C	Total/NA
Iron	1900		30		ug/L	1		6010C	Total/NA
Magnesium	1000		240		ug/L	1		6010C	Total/NA
Manganese	130		10		ug/L	1		6010C	Total/NA
Potassium	920		200		ug/L	1		6010C	Total/NA
Sodium	3200		400		ug/L	1		6010C	Total/NA
Lead	4.5		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.064		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	90		10		mg/L	1		410.4	Total/NA
Chloride	6.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	48				%	1		SM 1030E	Total/NA
Calculated TDS	17				mg/L	1		SM 1030E	Total/NA
TDS Ratio	4.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.8				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	80		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	150		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	22		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	16.2				NTU	1		Field Sampling	Total/NA
Temperature	20.6				Degrees C	1		Field Sampling	Total/NA
Field pH	5.04				SU	1		Field Sampling	Total/NA
Specific Conductance	44				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	192.9				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.9				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-101 (Continued)

Lab Sample ID: 480-158077-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	1.10				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-102

Lab Sample ID: 480-158077-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	6800		150		ug/L	1		6010C	Total/NA
Iron	920		30		ug/L	1		6010C	Total/NA
Magnesium	1200		240		ug/L	1		6010C	Total/NA
Manganese	60		10		ug/L	1		6010C	Total/NA
Potassium	830		200		ug/L	1		6010C	Total/NA
Sodium	11000		400		ug/L	1		6010C	Total/NA
Lead	0.47		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.027		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	57		10		mg/L	1		410.4	Total/NA
Chloride	24		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	19				%	1		SM 1030E	Total/NA
Calculated TDS	45				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.0				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	54		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	20		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	18.4				NTU	1		Field Sampling	Total/NA
Temperature	22.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.36				SU	1		Field Sampling	Total/NA
Specific Conductance	105				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	135.1				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.20				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-201

Lab Sample ID: 480-158077-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	5300		150		ug/L	1		6010C	Total/NA
Iron	1400		30		ug/L	1		6010C	Total/NA
Magnesium	1100		240		ug/L	1		6010C	Total/NA
Manganese	110		10		ug/L	1		6010C	Total/NA
Potassium	980		200		ug/L	1		6010C	Total/NA
Sodium	4600		400		ug/L	1		6010C	Total/NA
Lead	0.88		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.022		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.068		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	37		10		mg/L	1		410.4	Total/NA
Chloride	10		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	39				%	1		SM 1030E	Total/NA
Calculated TDS	24				mg/L	1		SM 1030E	Total/NA
TDS Ratio	3.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.3				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	85		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	12		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-201 (Continued)

Lab Sample ID: 480-158077-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Turbidity	11.2				NTU	1		Field Sampling	Total/NA
Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.53				SU	1		Field Sampling	Total/NA
Specific Conductance	66				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	130.1				millivolts	1		Field Sampling	Total/NA
Flow	Still				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.6				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-203

Lab Sample ID: 480-158077-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	11000		150		ug/L	1		6010C	Total/NA
Iron	360		30		ug/L	1		6010C	Total/NA
Magnesium	1400		240		ug/L	1		6010C	Total/NA
Manganese	190		10		ug/L	1		6010C	Total/NA
Potassium	2000		200		ug/L	1		6010C	Total/NA
Sodium	1500		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	34		10		mg/L	1		310.2	Total/NA
Nitrate	0.052		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	6.1				%	1		SM 1030E	Total/NA
Calculated TDS	38				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.9				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.90				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	74		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	5.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.3				NTU	1		Field Sampling	Total/NA
Temperature	20.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.03				SU	1		Field Sampling	Total/NA
Specific Conductance	82				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	193.1				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-204

Lab Sample ID: 480-158077-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	11000		150		ug/L	1		6010C	Total/NA
Iron	490		30		ug/L	1		6010C	Total/NA
Magnesium	1800		240		ug/L	1		6010C	Total/NA
Manganese	58		10		ug/L	1		6010C	Total/NA
Potassium	1300		200		ug/L	1		6010C	Total/NA
Sodium	4000		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	22		10		mg/L	1		310.2	Total/NA
Nitrate	0.074		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	43		10		mg/L	1		410.4	Total/NA
Chloride	6.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	20				%	1		SM 1030E	Total/NA
Calculated TDS	38				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.3				NONE	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-204 (Continued)

Lab Sample ID: 480-158077-6

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
TDS to Conductivity Ratio	1.1				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	87		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	16		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.3				NTU	1		Field Sampling	Total/NA
Temperature	23.0				Degrees C	1		Field Sampling	Total/NA
Field pH	5.97				SU	1		Field Sampling	Total/NA
Specific Conductance	79				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	180.5				millivolts	1		Field Sampling	Total/NA
Flow	Still				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.30				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-801

Lab Sample ID: 480-158077-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	8200		150		ug/L	1		6010C	Total/NA
Iron	380		30		ug/L	1		6010C	Total/NA
Magnesium	1000		240		ug/L	1		6010C	Total/NA
Manganese	45		10		ug/L	1		6010C	Total/NA
Potassium	1400		200		ug/L	1		6010C	Total/NA
Sodium	870		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	25		10		mg/L	1		310.2	Total/NA
Nitrate	0.13		0.050		mg/L as N	1		353.2	Total/NA
Chloride	0.62		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	5.5				%	1		SM 1030E	Total/NA
Calculated TDS	28				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.52				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	56		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	6.2				NTU	1		Field Sampling	Total/NA
Temperature	22.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Specific Conductance	107				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	174.0				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-9

Lab Sample ID: 480-158077-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	6300		150		ug/L	1		6010C	Total/NA
Iron	690		30		ug/L	1		6010C	Total/NA
Magnesium	1500		240		ug/L	1		6010C	Total/NA
Manganese	58		10		ug/L	1		6010C	Total/NA
Potassium	980		200		ug/L	1		6010C	Total/NA
Sodium	2500		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	10		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.086		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	50		10		mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-9 (Continued)

Lab Sample ID: 480-158077-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	1.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	46				%	1		SM 1030E	Total/NA
Calculated TDS	19				mg/L	1		SM 1030E	Total/NA
TDS Ratio	4.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.4				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	78		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	9.6		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	17		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	7.5				NTU	1		Field Sampling	Total/NA
Temperature	24.5				Degrees C	1		Field Sampling	Total/NA
Field pH	6.03				SU	1		Field Sampling	Total/NA
Specific Conductance	54				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	141.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-A

Lab Sample ID: 480-158077-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	39000		150		ug/L	1		6010C	Total/NA
Iron	720		30		ug/L	1		6010C	Total/NA
Magnesium	7100		240		ug/L	1		6010C	Total/NA
Manganese	7400		10		ug/L	1		6010C	Total/NA
Potassium	3500		200		ug/L	1		6010C	Total/NA
Sodium	2800		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.41		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.85		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.8				%	1		SM 1030E	Total/NA
Calculated TDS	150				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.73				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	200		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.0		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	3.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	19.5				NTU	1		Field Sampling	Total/NA
Temperature	19.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Specific Conductance	276				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	174.0				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.2				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.00				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-B

Lab Sample ID: 480-158077-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	6300		150		ug/L	1		6010C	Total/NA
Iron	1400		30		ug/L	1		6010C	Total/NA
Magnesium	1900		240		ug/L	1		6010C	Total/NA
Manganese	160		10		ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-B (Continued)

Lab Sample ID: 480-158077-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Potassium	830		200		ug/L	1		6010C	Total/NA
Sodium	3800		400		ug/L	1		6010C	Total/NA
Lead	1.7		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.077		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.068		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	64		10		mg/L	1		410.4	Total/NA
Chloride	5.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	66				%	1		SM 1030E	Total/NA
Calculated TDS	20				mg/L	1		SM 1030E	Total/NA
TDS Ratio	5.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.5				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	28		4.0		mg/L	1		SM 2540D	Total/NA
Total Suspended Solids	39		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	28		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	11.1				NTU	1		Field Sampling	Total/NA
Temperature	19.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Specific Conductance	73				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	72.8				millivolts	1		Field Sampling	Total/NA
Flow	Slow				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	11.0				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	1.50				ft	1		Field Sampling	Total/NA

Client Sample ID: SW-C

Lab Sample ID: 480-158077-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	1800		150		ug/L	1		6010C	Total/NA
Iron	540		30		ug/L	1		6010C	Total/NA
Magnesium	1600		240		ug/L	1		6010C	Total/NA
Manganese	34		10		ug/L	1		6010C	Total/NA
Potassium	230		200		ug/L	1		6010C	Total/NA
Sodium	1600		400		ug/L	1		6010C	Total/NA
Lead	2.4		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.031		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	120		10		mg/L	1		410.4	Total/NA
Chloride	2.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	61				%	1		SM 1030E	Total/NA
Calculated TDS	8.6				mg/L	1		SM 1030E	Total/NA
TDS Ratio	14				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	2.9				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	55		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.2				NTU	1		Field Sampling	Total/NA
Temperature	19.4				Degrees C	1		Field Sampling	Total/NA
Field pH	5.15				SU	1		Field Sampling	Total/NA
Specific Conductance	42				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	219.8				millivolts	1		Field Sampling	Total/NA
Flow	Fast				Mgal/day	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	0.00				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: DUP-SW-01

Date Collected: 08/22/19 11:40
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-1

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:00	1
Calcium	**9900**		150		ug/L		08/26/19 09:20	08/26/19 20:00	1
Iron	**460**		30		ug/L		08/26/19 09:20	08/26/19 20:00	1
Magnesium	**1700**		240		ug/L		08/26/19 09:20	08/26/19 20:00	1
Manganese	**55**		10		ug/L		08/26/19 09:20	08/26/19 20:00	1
Potassium	**1200**		200		ug/L		08/26/19 09:20	08/26/19 20:00	1
Sodium	**3800**		400		ug/L		08/26/19 09:20	08/26/19 20:00	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**15**				%			09/11/19 14:52	1
Calculated TDS	**37**				mg/L			09/11/19 14:52	1
TDS Ratio	**2.4**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.1**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**23**		10		mg/L			08/26/19 21:12	1
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 10:12	1
Nitrate	**0.070**		0.050		mg/L as N			08/23/19 16:29	1
Chemical Oxygen Demand	**39**		10		mg/L			08/29/19 12:10	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:49	1
Chloride	**6.2**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**90**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**16**		1.0		mg/L			08/24/19 09:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/27/19 08:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.3**				NTU			08/22/19 11:40	1
Temperature	**23.0**				Degrees C			08/22/19 11:40	1
Field pH	**5.97**				SU			08/22/19 11:40	1
Specific Conductance	**79**				umhos/cm			08/22/19 11:40	1
Field EH/ORP	**180.5**				millivolts			08/22/19 11:40	1
Oxygen, Dissolved	**7.7**				mg/L			08/22/19 11:40	1
Depth to Water from Top of Casing	**1.30**				ft			08/22/19 11:40	1

Client Sample ID: SW-101

Date Collected: 08/22/19 11:20
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-2

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:03	1
Calcium	**3600**		150		ug/L		08/26/19 09:20	08/26/19 20:03	1
Iron	**1900**		30		ug/L		08/26/19 09:20	08/26/19 20:03	1
Magnesium	**1000**		240		ug/L		08/26/19 09:20	08/26/19 20:03	1
Manganese	**130**		10		ug/L		08/26/19 09:20	08/26/19 20:03	1
Potassium	**920**		200		ug/L		08/26/19 09:20	08/26/19 20:03	1
Sodium	**3200**		400		ug/L		08/26/19 09:20	08/26/19 20:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.5**		0.40		ug/L		08/26/19 08:35	08/27/19 15:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**48**				%			09/11/19 14:52	1
Calculated TDS	**17**				mg/L			09/11/19 14:52	1
TDS Ratio	**4.6**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.8**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:12	1
Ammonia as N	**0.064**		0.020		mg/L as N			08/26/19 09:01	1
Nitrate	ND	U	0.050		mg/L as N			08/23/19 14:55	1
Chemical Oxygen Demand	**90**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:33	1
Chloride	**6.7**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**80**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**22**		1.0		mg/L			08/24/19 09:36	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**150**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**16.2**				NTU			08/22/19 11:20	1
Temperature	**20.6**				Degrees C			08/22/19 11:20	1
Field pH	**5.04**				SU			08/22/19 11:20	1
Specific Conductance	**44**				umhos/cm			08/22/19 11:20	1
Field EH/ORP	**192.9**				millivolts			08/22/19 11:20	1
Flow	**Slow**				Mgal/day			08/22/19 11:20	1
Oxygen, Dissolved	**8.9**				mg/L			08/22/19 11:20	1
Depth to Water from Top of Casing	**1.10**				ft			08/22/19 11:20	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-102

Date Collected: 08/22/19 12:30
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-3

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:07	1
Calcium	**6800**		150		ug/L		08/26/19 09:20	08/26/19 20:07	1
Iron	**920**		30		ug/L		08/26/19 09:20	08/26/19 20:07	1
Magnesium	**1200**		240		ug/L		08/26/19 09:20	08/26/19 20:07	1
Manganese	**60**		10		ug/L		08/26/19 09:20	08/26/19 20:07	1
Potassium	**830**		200		ug/L		08/26/19 09:20	08/26/19 20:07	1
Sodium	**11000**		400		ug/L		08/26/19 09:20	08/26/19 20:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.47**		0.40		ug/L		08/26/19 08:35	08/27/19 15:23	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**19**				%			09/11/19 14:52	1
Calculated TDS	**45**				mg/L			09/11/19 14:52	1
TDS Ratio	**2.5**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.0**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/27/19 22:16	1
Ammonia as N	**0.027**		0.020		mg/L as N			08/26/19 09:02	1
Nitrate	ND	U	0.050		mg/L as N			08/23/19 14:56	1
Chemical Oxygen Demand	**57**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:49	1
Chloride	**24**		0.50		mg/L			08/26/19 21:30	1
Total Dissolved Solids	**110**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**20**		1.0		mg/L			08/27/19 20:51	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**54**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**18.4**				NTU			08/22/19 12:30	1
Temperature	**22.2**				Degrees C			08/22/19 12:30	1
Field pH	**6.36**				SU			08/22/19 12:30	1
Specific Conductance	**105**				umhos/cm			08/22/19 12:30	1
Field EH/ORP	**135.1**				millivolts			08/22/19 12:30	1
Flow	**Slow**				Mgal/day			08/22/19 12:30	1
Oxygen, Dissolved	**6.7**				mg/L			08/22/19 12:30	1
Depth to Water from Top of Casing	**1.20**				ft			08/22/19 12:30	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-201

Date Collected: 08/22/19 12:15
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-4

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:11	1
Calcium	**5300**		150		ug/L		08/26/19 09:20	08/26/19 20:11	1
Iron	**1400**		30		ug/L		08/26/19 09:20	08/26/19 20:11	1
Magnesium	**1100**		240		ug/L		08/26/19 09:20	08/26/19 20:11	1
Manganese	**110**		10		ug/L		08/26/19 09:20	08/26/19 20:11	1
Potassium	**980**		200		ug/L		08/26/19 09:20	08/26/19 20:11	1
Sodium	**4600**		400		ug/L		08/26/19 09:20	08/26/19 20:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.88**		0.40		ug/L		08/26/19 08:35	08/27/19 15:26	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**39**				%			09/11/19 14:52	1
Calculated TDS	**24**				mg/L			09/11/19 14:52	1
TDS Ratio	**3.6**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.3**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/27/19 22:16	1
Ammonia as N	**0.022**		0.020		mg/L as N			08/26/19 10:14	1
Nitrate	**0.068**		0.050		mg/L as N			08/23/19 16:45	1
Chemical Oxygen Demand	**37**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:49	1
Chloride	**10**		0.50		mg/L			08/26/19 21:19	1
Total Dissolved Solids	**85**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**12**		1.0		mg/L			08/24/19 10:07	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**18**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**11.2**				NTU			08/22/19 12:15	1
Temperature	**21.7**				Degrees C			08/22/19 12:15	1
Field pH	**6.53**				SU			08/22/19 12:15	1
Specific Conductance	**66**				umhos/cm			08/22/19 12:15	1
Field EH/ORP	**130.1**				millivolts			08/22/19 12:15	1
Flow	**Still**				Mgal/day			08/22/19 12:15	1
Oxygen, Dissolved	**8.6**				mg/L			08/22/19 12:15	1
Depth to Water from Top of Casing	**0.00**				ft			08/22/19 12:15	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-203

Date Collected: 08/22/19 09:55
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-5

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:15	1
Calcium	**11000**		150		ug/L		08/26/19 09:20	08/26/19 20:15	1
Iron	**360**		30		ug/L		08/26/19 09:20	08/26/19 20:15	1
Magnesium	**1400**		240		ug/L		08/26/19 09:20	08/26/19 20:15	1
Manganese	**190**		10		ug/L		08/26/19 09:20	08/26/19 20:15	1
Potassium	**2000**		200		ug/L		08/26/19 09:20	08/26/19 20:15	1
Sodium	**1500**		400		ug/L		08/26/19 09:20	08/26/19 20:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:28	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**6.1**				%			09/11/19 14:52	1
Calculated TDS	**38**				mg/L			09/11/19 14:52	1
TDS Ratio	**1.9**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**0.90**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**34**		10		mg/L			08/26/19 21:22	1
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 09:04	1
Nitrate	**0.052**		0.050		mg/L as N			08/23/19 16:31	1
Chemical Oxygen Demand	ND	U	10		mg/L			09/03/19 13:23	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:49	1
Chloride	**1.1**		0.50		mg/L			08/26/19 21:30	1
Total Dissolved Solids	**74**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**5.2**		1.0		mg/L			08/27/19 21:06	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.3**				NTU			08/22/19 09:55	1
Temperature	**20.4**				Degrees C			08/22/19 09:55	1
Field pH	**7.03**				SU			08/22/19 09:55	1
Specific Conductance	**82**				umhos/cm			08/22/19 09:55	1
Field EH/ORP	**193.1**				millivolts			08/22/19 09:55	1
Flow	**Slow**				Mgal/day			08/22/19 09:55	1
Oxygen, Dissolved	**10.0**				mg/L			08/22/19 09:55	1
Depth to Water from Top of Casing	**2.00**				ft			08/22/19 09:55	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-204

Date Collected: 08/22/19 11:40
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-6

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:19	1
Calcium	**11000**		150		ug/L		08/26/19 09:20	08/26/19 20:19	1
Iron	**490**		30		ug/L		08/26/19 09:20	08/26/19 20:19	1
Magnesium	**1800**		240		ug/L		08/26/19 09:20	08/26/19 20:19	1
Manganese	**58**		10		ug/L		08/26/19 09:20	08/26/19 20:19	1
Potassium	**1300**		200		ug/L		08/26/19 09:20	08/26/19 20:19	1
Sodium	**4000**		400		ug/L		08/26/19 09:20	08/26/19 20:19	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:30	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**20**				%			09/11/19 14:52	1
Calculated TDS	**38**				mg/L			09/11/19 14:52	1
TDS Ratio	**2.3**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.1**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**22**		10		mg/L			08/26/19 21:22	1
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 10:42	1
Nitrate	**0.074**		0.050		mg/L as N			08/23/19 16:32	1
Chemical Oxygen Demand	**43**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:49	1
Chloride	**6.1**		0.50		mg/L			08/27/19 22:24	1
Total Dissolved Solids	**87**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**16**		1.0		mg/L			08/24/19 11:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.2**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.3**				NTU			08/22/19 11:40	1
Temperature	**23.0**				Degrees C			08/22/19 11:40	1
Field pH	**5.97**				SU			08/22/19 11:40	1
Specific Conductance	**79**				umhos/cm			08/22/19 11:40	1
Field EH/ORP	**180.5**				millivolts			08/22/19 11:40	1
Flow	**Still**				Mgal/day			08/22/19 11:40	1
Oxygen, Dissolved	**7.7**				mg/L			08/22/19 11:40	1
Depth to Water from Top of Casing	**1.30**				ft			08/22/19 11:40	1

Client Sample ID: SW-801
Date Collected: 08/22/19 09:40
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-7
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:23	1
Calcium	**8200**		150		ug/L		08/26/19 09:20	08/26/19 20:23	1
Iron	**380**		30		ug/L		08/26/19 09:20	08/26/19 20:23	1
Magnesium	**1000**		240		ug/L		08/26/19 09:20	08/26/19 20:23	1
Manganese	**45**		10		ug/L		08/26/19 09:20	08/26/19 20:23	1
Potassium	**1400**		200		ug/L		08/26/19 09:20	08/26/19 20:23	1
Sodium	**870**		400		ug/L		08/26/19 09:20	08/26/19 20:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:32	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**5.5**				%			09/11/19 14:52	1
Calculated TDS	**28**				mg/L			09/11/19 14:52	1
TDS Ratio	**2.0**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**0.52**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**25**		10		mg/L			08/27/19 21:17	1
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 09:06	1
Nitrate	**0.13**		0.050		mg/L as N			08/23/19 16:40	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 20:14	1
Chloride	**0.62**		0.50		mg/L			08/28/19 20:16	1
Total Dissolved Solids	**56**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**1.4**		1.0		mg/L			08/24/19 11:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**6.2**				NTU			08/22/19 09:40	1
Temperature	**22.5**				Degrees C			08/22/19 09:40	1
Field pH	**7.34**				SU			08/22/19 09:40	1
Specific Conductance	**107**				umhos/cm			08/22/19 09:40	1
Field EH/ORP	**174.0**				millivolts			08/22/19 09:40	1
Flow	**Slow**				Mgal/day			08/22/19 09:40	1
Oxygen, Dissolved	**9.3**				mg/L			08/22/19 09:40	1
Depth to Water from Top of Casing	**1.00**				ft			08/22/19 09:40	1

Client Sample ID: SW-9
Date Collected: 08/22/19 13:10
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-8
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:27	1
Calcium	**6300**		150		ug/L		08/26/19 09:20	08/26/19 20:27	1
Iron	**690**		30		ug/L		08/26/19 09:20	08/26/19 20:27	1
Magnesium	**1500**		240		ug/L		08/26/19 09:20	08/26/19 20:27	1
Manganese	**58**		10		ug/L		08/26/19 09:20	08/26/19 20:27	1
Potassium	**980**		200		ug/L		08/26/19 09:20	08/26/19 20:27	1
Sodium	**2500**		400		ug/L		08/26/19 09:20	08/26/19 20:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**46**				%			09/11/19 14:52	1
Calculated TDS	**19**				mg/L			09/11/19 14:52	1
TDS Ratio	**4.1**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.4**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**10**		10		mg/L			08/26/19 21:49	1
Ammonia as N	**0.086**		0.020		mg/L as N			08/26/19 09:12	1
Nitrate	ND	U	0.050		mg/L as N			08/23/19 15:09	1
Chemical Oxygen Demand	**50**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 20:48	1
Chloride	**1.0**		0.50		mg/L			08/27/19 22:24	1
Total Dissolved Solids	**78**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**17**		1.0		mg/L			08/27/19 21:22	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**9.6**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**7.5**				NTU			08/22/19 13:10	1
Temperature	**24.5**				Degrees C			08/22/19 13:10	1
Field pH	**6.03**				SU			08/22/19 13:10	1
Specific Conductance	**54**				umhos/cm			08/22/19 13:10	1
Field EH/ORP	**141.7**				millivolts			08/22/19 13:10	1
Oxygen, Dissolved	**7.7**				mg/L			08/22/19 13:10	1
Depth to Water from Top of Casing	**0.00**				ft			08/22/19 13:10	1

Client Sample ID: SW-A
Lab Sample ID: 480-158077-9

Date Collected: 08/22/19 10:24
Matrix: Surface Water
Date Received: 08/23/19 09:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 20:42	1
Calcium	**39000**		150		ug/L		08/26/19 09:20	08/26/19 20:42	1
Iron	**720**		30		ug/L		08/26/19 09:20	08/26/19 20:42	1
Magnesium	**7100**		240		ug/L		08/26/19 09:20	08/26/19 20:42	1
Manganese	**7400**		10		ug/L		08/26/19 09:20	08/26/19 20:42	1
Potassium	**3500**		200		ug/L		08/26/19 09:20	08/26/19 20:42	1
Sodium	**2800**		400		ug/L		08/26/19 09:20	08/26/19 20:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.8**				%			09/11/19 14:52	1
Calculated TDS	**150**				mg/L			09/11/19 14:52	1
TDS Ratio	**1.3**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**0.73**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			08/28/19 00:28	2
Ammonia as N	**0.41**		0.020		mg/L as N			08/26/19 09:10	1
Nitrate	**0.85**		0.050		mg/L as N			08/23/19 16:41	1
Chemical Oxygen Demand	ND	U	10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:36	1
Chloride	**2.9**		0.50		mg/L			08/26/19 21:31	1
Total Dissolved Solids	**200**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**3.1**		1.0		mg/L			08/24/19 11:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**8.0**		4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**19.5**				NTU			08/22/19 10:24	1
Temperature	**19.4**				Degrees C			08/22/19 10:24	1
Field pH	**6.65**				SU			08/22/19 10:24	1
Specific Conductance	**276**				umhos/cm			08/22/19 10:24	1
Field EH/ORP	**174.0**				millivolts			08/22/19 10:24	1
Flow	**Slow**				Mgal/day			08/22/19 10:24	1
Oxygen, Dissolved	**8.2**				mg/L			08/22/19 10:24	1
Depth to Water from Top of Casing	**2.00**				ft			08/22/19 10:24	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-B

Date Collected: 08/22/19 10:45
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-10

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 21:02	1
Calcium	**6300**		150		ug/L		08/26/19 09:20	08/26/19 21:02	1
Iron	**1400**		30		ug/L		08/26/19 09:20	08/26/19 21:02	1
Magnesium	**1900**		240		ug/L		08/26/19 09:20	08/26/19 21:02	1
Manganese	**160**		10		ug/L		08/26/19 09:20	08/26/19 21:02	1
Potassium	**830**		200		ug/L		08/26/19 09:20	08/26/19 21:02	1
Sodium	**3800**		400		ug/L		08/26/19 09:20	08/26/19 21:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.7**		0.40		ug/L		08/26/19 08:35	08/27/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**66**				%			09/11/19 14:52	1
Calculated TDS	**20**				mg/L			09/11/19 14:52	1
TDS Ratio	**5.6**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**1.5**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/27/19 22:16	1
Ammonia as N	**0.077**		0.020		mg/L as N			08/26/19 09:13	1
Nitrate	**0.068**		0.050		mg/L as N			08/23/19 16:42	1
Chemical Oxygen Demand	**64**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:36	1
Chloride	**5.1**		0.50		mg/L			08/26/19 21:31	1
Total Dissolved Solids	**110**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**28**		1.0		mg/L			08/27/19 21:37	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**28**		4.0		mg/L			08/28/19 12:25	1
Total Suspended Solids	**39**		4.0		mg/L			08/30/19 11:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**11.1**				NTU			08/22/19 10:45	1
Temperature	**19.2**				Degrees C			08/22/19 10:45	1
Field pH	**7.06**				SU			08/22/19 10:45	1
Specific Conductance	**73**				umhos/cm			08/22/19 10:45	1
Field EH/ORP	**72.8**				millivolts			08/22/19 10:45	1
Flow	**Slow**				Mgal/day			08/22/19 10:45	1
Oxygen, Dissolved	**11.0**				mg/L			08/22/19 10:45	1
Depth to Water from Top of Casing	**1.50**				ft			08/22/19 10:45	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-C

Date Collected: 08/22/19 11:00
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-11

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 21:05	1
Calcium	**1800**		150		ug/L		08/26/19 09:20	08/26/19 21:05	1
Iron	**540**		30		ug/L		08/26/19 09:20	08/26/19 21:05	1
Magnesium	**1600**		240		ug/L		08/26/19 09:20	08/26/19 21:05	1
Manganese	**34**		10		ug/L		08/26/19 09:20	08/26/19 21:05	1
Potassium	**230**		200		ug/L		08/26/19 09:20	08/26/19 21:05	1
Sodium	**1600**		400		ug/L		08/26/19 09:20	08/26/19 21:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.4**		0.40		ug/L		08/26/19 08:35	08/27/19 15:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**61**				%			09/11/19 14:52	1
Calculated TDS	**8.6**				mg/L			09/11/19 14:52	1
TDS Ratio	**14**				NONE			09/11/19 14:52	1
TDS to Conductivity Ratio	**2.9**				NONE			09/11/19 14:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:49	1
Ammonia as N	**0.031**		0.020		mg/L as N			08/26/19 09:13	1
Nitrate	ND	U	0.050		mg/L as N			08/23/19 15:12	1
Chemical Oxygen Demand	**120**		10		mg/L			08/29/19 15:50	1
Sulfate	ND	U	5.0		mg/L			08/29/19 19:36	1
Chloride	**2.8**		0.50		mg/L			08/27/19 22:24	1
Total Dissolved Solids	**120**		5.0		mg/L			08/23/19 11:18	1
Total Organic Carbon	**55**		1.0		mg/L			08/27/19 21:52	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			08/28/19 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.2**				NTU			08/22/19 11:00	1
Temperature	**19.4**				Degrees C			08/22/19 11:00	1
Field pH	**5.15**				SU			08/22/19 11:00	1
Specific Conductance	**42**				umhos/cm			08/22/19 11:00	1
Field EH/ORP	**219.8**				millivolts			08/22/19 11:00	1
Flow	**Fast**				Mgal/day			08/22/19 11:00	1
Oxygen, Dissolved	**6.9**				mg/L			08/22/19 11:00	1
Depth to Water from Top of Casing	**0.00**				ft			08/22/19 11:00	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-488661/1-A
Matrix: Water
Analysis Batch: 488916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488661

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		08/26/19 09:20	08/26/19 19:40	1
Calcium	ND	U	150		ug/L		08/26/19 09:20	08/26/19 19:40	1
Iron	ND	U	30		ug/L		08/26/19 09:20	08/26/19 19:40	1
Magnesium	ND	U	240		ug/L		08/26/19 09:20	08/26/19 19:40	1
Manganese	ND	U	10		ug/L		08/26/19 09:20	08/26/19 19:40	1
Potassium	ND	U	200		ug/L		08/26/19 09:20	08/26/19 19:40	1
Sodium	ND	U	400		ug/L		08/26/19 09:20	08/26/19 19:40	1

Lab Sample ID: LCS 480-488661/2-A
Matrix: Water
Analysis Batch: 488916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488661

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			200	210		ug/L		105	80 - 120		
Calcium			10000	9260		ug/L		93	80 - 120		
Iron			10000	9900		ug/L		99	80 - 120		
Magnesium			10000	9440		ug/L		94	80 - 120		
Manganese			200	199		ug/L		99	80 - 120		
Potassium			10000	9020		ug/L		90	80 - 120		
Sodium			10000	8920		ug/L		89	80 - 120		

Lab Sample ID: 480-158077-9 MS
Matrix: Surface Water
Analysis Batch: 488916

Client Sample ID: SW-A
Prep Type: Total/NA
Prep Batch: 488661

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND	U	200	221		ug/L		111	75 - 125		
Calcium	39000		10000	49600		ug/L		109	75 - 125		
Iron	720		10000	10900		ug/L		102	75 - 125		
Magnesium	7100		10000	17100		ug/L		100	75 - 125		
Manganese	7400		200	7860		ug/L		237	75 - 125		
Potassium	3500		10000	13200		ug/L		97	75 - 125		
Sodium	2800		10000	12200		ug/L		94	75 - 125		

Lab Sample ID: 480-158077-9 MSD
Matrix: Surface Water
Analysis Batch: 488916

Client Sample ID: SW-A
Prep Type: Total/NA
Prep Batch: 488661

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	200	214		ug/L		107	75 - 125	3	20
Calcium	39000		10000	46900		ug/L		82	75 - 125	6	20
Iron	720		10000	10300		ug/L		95	75 - 125	6	20
Magnesium	7100		10000	16200		ug/L		90	75 - 125	6	20
Manganese	7400		200	7460		ug/L		36	75 - 125	5	20
Potassium	3500		10000	12500		ug/L		90	75 - 125	5	20
Sodium	2800		10000	11400		ug/L		86	75 - 125	7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-488660/1-A
Matrix: Water
Analysis Batch: 489173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488660

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		08/26/19 08:35	08/27/19 15:07	1

Lab Sample ID: LCS 480-488660/2-A
Matrix: Water
Analysis Batch: 489173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488660

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			20.0	18.8		ug/L		94	80 - 120		

Lab Sample ID: 480-158077-7 MS
Matrix: Surface Water
Analysis Batch: 489173

Client Sample ID: SW-801
Prep Type: Total/NA
Prep Batch: 488660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND	U	20.0	19.3		ug/L		95	75 - 125		

Lab Sample ID: 480-158077-7 MSD
Matrix: Surface Water
Analysis Batch: 489173

Client Sample ID: SW-801
Prep Type: Total/NA
Prep Batch: 488660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND	U	20.0	19.5		ug/L		96	75 - 125	1	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-488908/20
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:12	1

Lab Sample ID: MB 480-488908/32
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:21	1

Lab Sample ID: MB 480-488908/50
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/26/19 21:49	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-488908/21
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.0		mg/L		96	90 - 110

Lab Sample ID: LCS 480-488908/33
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: LCS 480-488908/51
Matrix: Water
Analysis Batch: 488908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: 480-158077-5 MS
Matrix: Surface Water
Analysis Batch: 488908

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	34		20.0	51.2		mg/L		87	60 - 140

Lab Sample ID: 480-158077-5 MSD
Matrix: Surface Water
Analysis Batch: 488908

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	34		20.0	51.8		mg/L		90	60 - 140	1	20

Lab Sample ID: MB 480-489127/117
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/28/19 00:28	1

Lab Sample ID: MB 480-489127/12
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/27/19 21:17	1

Lab Sample ID: MB 480-489127/78
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/27/19 22:15	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-489127/118
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.5		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-489127/13
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.2		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-489127/79
Matrix: Water
Analysis Batch: 489127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.8		mg/L		106	90 - 110		

Lab Sample ID: 480-158077-7 MS
Matrix: Surface Water
Analysis Batch: 489127

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	25		20.0	41.3		mg/L		84	60 - 140		

Lab Sample ID: 480-158077-7 MSD
Matrix: Surface Water
Analysis Batch: 489127

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	25		20.0	40.1		mg/L		78	60 - 140	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-488778/27
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 09:08	1

Lab Sample ID: MB 480-488778/3
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 08:48	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-488778/99
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 10:10	1

Lab Sample ID: LCS 480-488778/100
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-488778/28
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: LCS 480-488778/4
Matrix: Water
Analysis Batch: 488778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: 480-158077-1 MS
Matrix: Surface Water
Analysis Batch: 488778

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.232	*	mg/L as N		111	90 - 110		

Lab Sample ID: 480-158077-9 MS
Matrix: Surface Water
Analysis Batch: 488778

Client Sample ID: SW-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.41		0.200	0.606		mg/L as N		98	90 - 110		

Lab Sample ID: 480-158077-1 DU
Matrix: Surface Water
Analysis Batch: 488778

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-488781/3
Matrix: Water
Analysis Batch: 488781

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			08/26/19 10:40	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-488781/4
Matrix: Water
Analysis Batch: 488781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: 480-158077-6 MS
Matrix: Surface Water
Analysis Batch: 488781

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.271	*	mg/L as N		128	90 - 110		

Lab Sample ID: 480-158077-6 DU
Matrix: Surface Water
Analysis Batch: 488781

Client Sample ID: SW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Method: 410.4 - COD

Lab Sample ID: MB 480-489430/51
Matrix: Water
Analysis Batch: 489430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/29/19 12:10	1

Lab Sample ID: LCS 480-489430/52
Matrix: Water
Analysis Batch: 489430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.8		mg/L		107	90 - 110		

Lab Sample ID: MB 480-489521/27
Matrix: Water
Analysis Batch: 489521

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/29/19 15:50	1

Lab Sample ID: MB 480-489521/3
Matrix: Water
Analysis Batch: 489521

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			08/29/19 15:50	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-489521/28
Matrix: Water
Analysis Batch: 489521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.5		mg/L		102	90 - 110

Lab Sample ID: LCS 480-489521/4
Matrix: Water
Analysis Batch: 489521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.5		mg/L		98	90 - 110

Lab Sample ID: 480-158077-7 MS
Matrix: Surface Water
Analysis Batch: 489521

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	59.5		mg/L		119	75 - 125

Lab Sample ID: MB 480-489964/3
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/03/19 13:23	1

Lab Sample ID: LCS 480-489964/4
Matrix: Water
Analysis Batch: 489964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.2		mg/L		101	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-489525/41
Matrix: Water
Analysis Batch: 489525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			08/29/19 19:47	1

Lab Sample ID: MB 480-489525/63
Matrix: Water
Analysis Batch: 489525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			08/29/19 20:14	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 480-489525/40
Matrix: Water
Analysis Batch: 489525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.0		mg/L		93	90 - 110

Lab Sample ID: LCS 480-489525/62
Matrix: Water
Analysis Batch: 489525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	27.3		mg/L		91	90 - 110

Lab Sample ID: 480-158077-1 MS
Matrix: Surface Water
Analysis Batch: 489525

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	ND	U *	mg/L		0	60 - 128

Lab Sample ID: 480-158077-1 MSD
Matrix: Surface Water
Analysis Batch: 489525

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		0	60 - 128	NC	20

Lab Sample ID: 480-158077-2 MS
Matrix: Surface Water
Analysis Batch: 489525

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	ND	U *	mg/L		20	60 - 128

Lab Sample ID: 480-158077-2 MSD
Matrix: Surface Water
Analysis Batch: 489525

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	ND	U *	mg/L		15	60 - 128	26	20

Method: 9251 - Chloride

Lab Sample ID: MB 480-488907/24
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:19	1

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 480-488907/35
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:30	1

Lab Sample ID: MB 480-488907/45
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/26/19 21:31	1

Lab Sample ID: LCS 480-488907/25
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-488907/36
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.6		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-488907/46
Matrix: Water
Analysis Batch: 488907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Lab Sample ID: 480-158077-4 MS
Matrix: Surface Water
Analysis Batch: 488907

Client Sample ID: SW-201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	10		20.0	30.1		mg/L		100	74 - 131		

Lab Sample ID: 480-158077-4 MSD
Matrix: Surface Water
Analysis Batch: 488907

Client Sample ID: SW-201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		20.0	31.8		mg/L		108	74 - 131	5	20

Lab Sample ID: 480-158077-5 MS
Matrix: Surface Water
Analysis Batch: 488907

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.1		20.0	22.9		mg/L		109	74 - 131		

Method: 9251 - Chloride

Lab Sample ID: 480-158077-5 MSD
Matrix: Surface Water
Analysis Batch: 488907

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.1		20.0	22.9		mg/L		109	74 - 131	0	20

Lab Sample ID: MB 480-489126/67
Matrix: Water
Analysis Batch: 489126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/27/19 22:12	1

Lab Sample ID: LCS 480-489126/68
Matrix: Water
Analysis Batch: 489126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	24.9		mg/L		100	90 - 110		

Lab Sample ID: MB 480-489319/42
Matrix: Water
Analysis Batch: 489319

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/28/19 20:16	1

Lab Sample ID: LCS 480-489319/43
Matrix: Water
Analysis Batch: 489319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.7		mg/L		103	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-488542/1
Matrix: Water
Analysis Batch: 488542

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			08/23/19 11:18	1

Lab Sample ID: LCS 480-488542/2
Matrix: Water
Analysis Batch: 488542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	504		mg/L		101	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 480-158077-11 DU
Matrix: Surface Water
Analysis Batch: 488542

Client Sample ID: SW-C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	120			114		mg/L				8	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-489247/1
Matrix: Water
Analysis Batch: 489247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/28/19 12:25	1

Lab Sample ID: LCS 480-489247/2
Matrix: Water
Analysis Batch: 489247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			260	256		mg/L		98	88 - 110		

Lab Sample ID: MB 480-489659/1
Matrix: Water
Analysis Batch: 489659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			08/30/19 11:52	1

Lab Sample ID: LCS 480-489659/2
Matrix: Water
Analysis Batch: 489659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			250	244		mg/L		98	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-488679/51
Matrix: Water
Analysis Batch: 488679

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/24/19 07:49	1

Lab Sample ID: LCS 480-488679/52
Matrix: Water
Analysis Batch: 488679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	61.0		mg/L		102	90 - 110		

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MB 480-489215/4
Matrix: Water
Analysis Batch: 489215

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/27/19 17:34	1

Lab Sample ID: LCS 480-489215/5
Matrix: Water
Analysis Batch: 489215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.5		mg/L		101	90 - 110		

Metals

Prep Batch: 488660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	3020A	
480-158077-2	SW-101	Total/NA	Surface Water	3020A	
480-158077-3	SW-102	Total/NA	Surface Water	3020A	
480-158077-4	SW-201	Total/NA	Surface Water	3020A	
480-158077-5	SW-203	Total/NA	Surface Water	3020A	
480-158077-6	SW-204	Total/NA	Surface Water	3020A	
480-158077-7	SW-801	Total/NA	Surface Water	3020A	
480-158077-8	SW-9	Total/NA	Surface Water	3020A	
480-158077-9	SW-A	Total/NA	Surface Water	3020A	
480-158077-10	SW-B	Total/NA	Surface Water	3020A	
480-158077-11	SW-C	Total/NA	Surface Water	3020A	
MB 480-488660/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-488660/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-158077-7 MS	SW-801	Total/NA	Surface Water	3020A	
480-158077-7 MSD	SW-801	Total/NA	Surface Water	3020A	

Prep Batch: 488661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	3005A	
480-158077-2	SW-101	Total/NA	Surface Water	3005A	
480-158077-3	SW-102	Total/NA	Surface Water	3005A	
480-158077-4	SW-201	Total/NA	Surface Water	3005A	
480-158077-5	SW-203	Total/NA	Surface Water	3005A	
480-158077-6	SW-204	Total/NA	Surface Water	3005A	
480-158077-7	SW-801	Total/NA	Surface Water	3005A	
480-158077-8	SW-9	Total/NA	Surface Water	3005A	
480-158077-9	SW-A	Total/NA	Surface Water	3005A	
480-158077-10	SW-B	Total/NA	Surface Water	3005A	
480-158077-11	SW-C	Total/NA	Surface Water	3005A	
MB 480-488661/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-488661/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-158077-9 MS	SW-A	Total/NA	Surface Water	3005A	
480-158077-9 MSD	SW-A	Total/NA	Surface Water	3005A	

Analysis Batch: 488916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	6010C	488661
480-158077-2	SW-101	Total/NA	Surface Water	6010C	488661
480-158077-3	SW-102	Total/NA	Surface Water	6010C	488661
480-158077-4	SW-201	Total/NA	Surface Water	6010C	488661
480-158077-5	SW-203	Total/NA	Surface Water	6010C	488661
480-158077-6	SW-204	Total/NA	Surface Water	6010C	488661
480-158077-7	SW-801	Total/NA	Surface Water	6010C	488661
480-158077-8	SW-9	Total/NA	Surface Water	6010C	488661
480-158077-9	SW-A	Total/NA	Surface Water	6010C	488661
480-158077-10	SW-B	Total/NA	Surface Water	6010C	488661
480-158077-11	SW-C	Total/NA	Surface Water	6010C	488661
MB 480-488661/1-A	Method Blank	Total/NA	Water	6010C	488661
LCS 480-488661/2-A	Lab Control Sample	Total/NA	Water	6010C	488661
480-158077-9 MS	SW-A	Total/NA	Surface Water	6010C	488661
480-158077-9 MSD	SW-A	Total/NA	Surface Water	6010C	488661

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Metals

Analysis Batch: 489173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	6020A	488660
480-158077-2	SW-101	Total/NA	Surface Water	6020A	488660
480-158077-3	SW-102	Total/NA	Surface Water	6020A	488660
480-158077-4	SW-201	Total/NA	Surface Water	6020A	488660
480-158077-5	SW-203	Total/NA	Surface Water	6020A	488660
480-158077-6	SW-204	Total/NA	Surface Water	6020A	488660
480-158077-7	SW-801	Total/NA	Surface Water	6020A	488660
480-158077-8	SW-9	Total/NA	Surface Water	6020A	488660
480-158077-9	SW-A	Total/NA	Surface Water	6020A	488660
480-158077-10	SW-B	Total/NA	Surface Water	6020A	488660
480-158077-11	SW-C	Total/NA	Surface Water	6020A	488660
MB 480-488660/1-A	Method Blank	Total/NA	Water	6020A	488660
LCS 480-488660/2-A	Lab Control Sample	Total/NA	Water	6020A	488660
480-158077-7 MS	SW-801	Total/NA	Surface Water	6020A	488660
480-158077-7 MSD	SW-801	Total/NA	Surface Water	6020A	488660

General Chemistry

Analysis Batch: 488542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	SM 2540C	
480-158077-2	SW-101	Total/NA	Surface Water	SM 2540C	
480-158077-3	SW-102	Total/NA	Surface Water	SM 2540C	
480-158077-4	SW-201	Total/NA	Surface Water	SM 2540C	
480-158077-5	SW-203	Total/NA	Surface Water	SM 2540C	
480-158077-6	SW-204	Total/NA	Surface Water	SM 2540C	
480-158077-7	SW-801	Total/NA	Surface Water	SM 2540C	
480-158077-8	SW-9	Total/NA	Surface Water	SM 2540C	
480-158077-9	SW-A	Total/NA	Surface Water	SM 2540C	
480-158077-10	SW-B	Total/NA	Surface Water	SM 2540C	
480-158077-11	SW-C	Total/NA	Surface Water	SM 2540C	
MB 480-488542/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-488542/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-158077-11 DU	SW-C	Total/NA	Surface Water	SM 2540C	

Analysis Batch: 488611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	353.2	
480-158077-2	SW-101	Total/NA	Surface Water	353.2	
480-158077-3	SW-102	Total/NA	Surface Water	353.2	
480-158077-4	SW-201	Total/NA	Surface Water	353.2	
480-158077-5	SW-203	Total/NA	Surface Water	353.2	
480-158077-6	SW-204	Total/NA	Surface Water	353.2	
480-158077-7	SW-801	Total/NA	Surface Water	353.2	
480-158077-8	SW-9	Total/NA	Surface Water	353.2	
480-158077-9	SW-A	Total/NA	Surface Water	353.2	
480-158077-10	SW-B	Total/NA	Surface Water	353.2	
480-158077-11	SW-C	Total/NA	Surface Water	353.2	

General Chemistry

Analysis Batch: 488679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	SM 5310C	
480-158077-2	SW-101	Total/NA	Surface Water	SM 5310C	
480-158077-4	SW-201	Total/NA	Surface Water	SM 5310C	
480-158077-6	SW-204	Total/NA	Surface Water	SM 5310C	
480-158077-7	SW-801	Total/NA	Surface Water	SM 5310C	
480-158077-9	SW-A	Total/NA	Surface Water	SM 5310C	
MB 480-488679/51	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-488679/52	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 488778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	350.1	
480-158077-2	SW-101	Total/NA	Surface Water	350.1	
480-158077-3	SW-102	Total/NA	Surface Water	350.1	
480-158077-4	SW-201	Total/NA	Surface Water	350.1	
480-158077-5	SW-203	Total/NA	Surface Water	350.1	
480-158077-7	SW-801	Total/NA	Surface Water	350.1	
480-158077-8	SW-9	Total/NA	Surface Water	350.1	
480-158077-9	SW-A	Total/NA	Surface Water	350.1	
480-158077-10	SW-B	Total/NA	Surface Water	350.1	
480-158077-11	SW-C	Total/NA	Surface Water	350.1	
MB 480-488778/27	Method Blank	Total/NA	Water	350.1	
MB 480-488778/3	Method Blank	Total/NA	Water	350.1	
MB 480-488778/99	Method Blank	Total/NA	Water	350.1	
LCS 480-488778/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488778/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-488778/4	Lab Control Sample	Total/NA	Water	350.1	
480-158077-1 MS	DUP-SW-01	Total/NA	Surface Water	350.1	
480-158077-9 MS	SW-A	Total/NA	Surface Water	350.1	
480-158077-1 DU	DUP-SW-01	Total/NA	Surface Water	350.1	

Analysis Batch: 488781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-6	SW-204	Total/NA	Surface Water	350.1	
MB 480-488781/3	Method Blank	Total/NA	Water	350.1	
LCS 480-488781/4	Lab Control Sample	Total/NA	Water	350.1	
480-158077-6 MS	SW-204	Total/NA	Surface Water	350.1	
480-158077-6 DU	SW-204	Total/NA	Surface Water	350.1	

Analysis Batch: 488907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	9251	
480-158077-2	SW-101	Total/NA	Surface Water	9251	
480-158077-3	SW-102	Total/NA	Surface Water	9251	
480-158077-4	SW-201	Total/NA	Surface Water	9251	
480-158077-5	SW-203	Total/NA	Surface Water	9251	
480-158077-9	SW-A	Total/NA	Surface Water	9251	
480-158077-10	SW-B	Total/NA	Surface Water	9251	
MB 480-488907/24	Method Blank	Total/NA	Water	9251	
MB 480-488907/35	Method Blank	Total/NA	Water	9251	
MB 480-488907/45	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 488907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-488907/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-488907/36	Lab Control Sample	Total/NA	Water	9251	
LCS 480-488907/46	Lab Control Sample	Total/NA	Water	9251	
480-158077-4 MS	SW-201	Total/NA	Surface Water	9251	
480-158077-4 MSD	SW-201	Total/NA	Surface Water	9251	
480-158077-5 MS	SW-203	Total/NA	Surface Water	9251	
480-158077-5 MSD	SW-203	Total/NA	Surface Water	9251	

Analysis Batch: 488908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	310.2	
480-158077-2	SW-101	Total/NA	Surface Water	310.2	
480-158077-5	SW-203	Total/NA	Surface Water	310.2	
480-158077-6	SW-204	Total/NA	Surface Water	310.2	
480-158077-8	SW-9	Total/NA	Surface Water	310.2	
480-158077-11	SW-C	Total/NA	Surface Water	310.2	
MB 480-488908/20	Method Blank	Total/NA	Water	310.2	
MB 480-488908/32	Method Blank	Total/NA	Water	310.2	
MB 480-488908/50	Method Blank	Total/NA	Water	310.2	
LCS 480-488908/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488908/33	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-488908/51	Lab Control Sample	Total/NA	Water	310.2	
480-158077-5 MS	SW-203	Total/NA	Surface Water	310.2	
480-158077-5 MSD	SW-203	Total/NA	Surface Water	310.2	

Analysis Batch: 488962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	SM 2540D	

Analysis Batch: 489126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-6	SW-204	Total/NA	Surface Water	9251	
480-158077-8	SW-9	Total/NA	Surface Water	9251	
480-158077-11	SW-C	Total/NA	Surface Water	9251	
MB 480-489126/67	Method Blank	Total/NA	Water	9251	
LCS 480-489126/68	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 489127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-3	SW-102	Total/NA	Surface Water	310.2	
480-158077-4	SW-201	Total/NA	Surface Water	310.2	
480-158077-7	SW-801	Total/NA	Surface Water	310.2	
480-158077-9	SW-A	Total/NA	Surface Water	310.2	
480-158077-10	SW-B	Total/NA	Surface Water	310.2	
MB 480-489127/117	Method Blank	Total/NA	Water	310.2	
MB 480-489127/12	Method Blank	Total/NA	Water	310.2	
MB 480-489127/78	Method Blank	Total/NA	Water	310.2	
LCS 480-489127/118	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-489127/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-489127/79	Lab Control Sample	Total/NA	Water	310.2	
480-158077-7 MS	SW-801	Total/NA	Surface Water	310.2	

General Chemistry (Continued)

Analysis Batch: 489127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-7 MSD	SW-801	Total/NA	Surface Water	310.2	

Analysis Batch: 489215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-3	SW-102	Total/NA	Surface Water	SM 5310C	
480-158077-5	SW-203	Total/NA	Surface Water	SM 5310C	
480-158077-8	SW-9	Total/NA	Surface Water	SM 5310C	
480-158077-10	SW-B	Total/NA	Surface Water	SM 5310C	
480-158077-11	SW-C	Total/NA	Surface Water	SM 5310C	
MB 480-489215/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-489215/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 489247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-2	SW-101	Total/NA	Surface Water	SM 2540D	
480-158077-3	SW-102	Total/NA	Surface Water	SM 2540D	
480-158077-4	SW-201	Total/NA	Surface Water	SM 2540D	
480-158077-5	SW-203	Total/NA	Surface Water	SM 2540D	
480-158077-6	SW-204	Total/NA	Surface Water	SM 2540D	
480-158077-7	SW-801	Total/NA	Surface Water	SM 2540D	
480-158077-8	SW-9	Total/NA	Surface Water	SM 2540D	
480-158077-9	SW-A	Total/NA	Surface Water	SM 2540D	
480-158077-10	SW-B	Total/NA	Surface Water	SM 2540D	
480-158077-11	SW-C	Total/NA	Surface Water	SM 2540D	
MB 480-489247/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489247/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 489319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-7	SW-801	Total/NA	Surface Water	9251	
MB 480-489319/42	Method Blank	Total/NA	Water	9251	
LCS 480-489319/43	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 489430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	410.4	
MB 480-489430/51	Method Blank	Total/NA	Water	410.4	
LCS 480-489430/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 489521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-2	SW-101	Total/NA	Surface Water	410.4	
480-158077-3	SW-102	Total/NA	Surface Water	410.4	
480-158077-4	SW-201	Total/NA	Surface Water	410.4	
480-158077-6	SW-204	Total/NA	Surface Water	410.4	
480-158077-7	SW-801	Total/NA	Surface Water	410.4	
480-158077-8	SW-9	Total/NA	Surface Water	410.4	
480-158077-9	SW-A	Total/NA	Surface Water	410.4	
480-158077-10	SW-B	Total/NA	Surface Water	410.4	
480-158077-11	SW-C	Total/NA	Surface Water	410.4	
MB 480-489521/27	Method Blank	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 489521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-489521/3	Method Blank	Total/NA	Water	410.4	
LCS 480-489521/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-489521/4	Lab Control Sample	Total/NA	Water	410.4	
480-158077-7 MS	SW-801	Total/NA	Surface Water	410.4	

Analysis Batch: 489525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	9038	
480-158077-2	SW-101	Total/NA	Surface Water	9038	
480-158077-3	SW-102	Total/NA	Surface Water	9038	
480-158077-4	SW-201	Total/NA	Surface Water	9038	
480-158077-5	SW-203	Total/NA	Surface Water	9038	
480-158077-6	SW-204	Total/NA	Surface Water	9038	
480-158077-7	SW-801	Total/NA	Surface Water	9038	
480-158077-8	SW-9	Total/NA	Surface Water	9038	
480-158077-9	SW-A	Total/NA	Surface Water	9038	
480-158077-10	SW-B	Total/NA	Surface Water	9038	
480-158077-11	SW-C	Total/NA	Surface Water	9038	
MB 480-489525/41	Method Blank	Total/NA	Water	9038	
MB 480-489525/63	Method Blank	Total/NA	Water	9038	
LCS 480-489525/40	Lab Control Sample	Total/NA	Water	9038	
LCS 480-489525/62	Lab Control Sample	Total/NA	Water	9038	
480-158077-1 MS	DUP-SW-01	Total/NA	Surface Water	9038	
480-158077-1 MSD	DUP-SW-01	Total/NA	Surface Water	9038	
480-158077-2 MS	SW-101	Total/NA	Surface Water	9038	
480-158077-2 MSD	SW-101	Total/NA	Surface Water	9038	

Analysis Batch: 489659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-10	SW-B	Total/NA	Surface Water	SM 2540D	
MB 480-489659/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489659/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 489964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-5	SW-203	Total/NA	Surface Water	410.4	
MB 480-489964/3	Method Blank	Total/NA	Water	410.4	
LCS 480-489964/4	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 491509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	SM 1030E	
480-158077-2	SW-101	Total/NA	Surface Water	SM 1030E	
480-158077-3	SW-102	Total/NA	Surface Water	SM 1030E	
480-158077-4	SW-201	Total/NA	Surface Water	SM 1030E	
480-158077-5	SW-203	Total/NA	Surface Water	SM 1030E	
480-158077-6	SW-204	Total/NA	Surface Water	SM 1030E	
480-158077-7	SW-801	Total/NA	Surface Water	SM 1030E	
480-158077-8	SW-9	Total/NA	Surface Water	SM 1030E	
480-158077-9	SW-A	Total/NA	Surface Water	SM 1030E	
480-158077-10	SW-B	Total/NA	Surface Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 491509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-11	SW-C	Total/NA	Surface Water	SM 1030E	

Field Service / Mobile Lab

Analysis Batch: 488841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158077-1	DUP-SW-01	Total/NA	Surface Water	Field Sampling	
480-158077-2	SW-101	Total/NA	Surface Water	Field Sampling	
480-158077-3	SW-102	Total/NA	Surface Water	Field Sampling	
480-158077-4	SW-201	Total/NA	Surface Water	Field Sampling	
480-158077-5	SW-203	Total/NA	Surface Water	Field Sampling	
480-158077-6	SW-204	Total/NA	Surface Water	Field Sampling	
480-158077-7	SW-801	Total/NA	Surface Water	Field Sampling	
480-158077-8	SW-9	Total/NA	Surface Water	Field Sampling	
480-158077-9	SW-A	Total/NA	Surface Water	Field Sampling	
480-158077-10	SW-B	Total/NA	Surface Water	Field Sampling	
480-158077-11	SW-C	Total/NA	Surface Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Client Sample ID: DUP-SW-01
Lab Sample ID: 480-158077-1
Date Collected: 08/22/19 11:40
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:00	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:12	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:12	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 10:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:29	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489430	08/29/19 12:10	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:49	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	488962	08/27/19 08:24	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 09:21	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 11:40	FLD	TAL BUF

Client Sample ID: SW-101
Lab Sample ID: 480-158077-2
Date Collected: 08/22/19 11:20
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:03	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:14	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:12	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:01	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 14:55	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:33	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 09:36	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 11:20	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Client Sample ID: SW-102
Lab Sample ID: 480-158077-3
Date Collected: 08/22/19 12:30
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:07	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:23	KMP	TAL BUF
Total/NA	Analysis	310.2		1	489127	08/27/19 22:16	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 14:56	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:49	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:30	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	489215	08/27/19 20:51	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 12:30	FLD	TAL BUF

Client Sample ID: SW-201
Lab Sample ID: 480-158077-4
Date Collected: 08/22/19 12:15
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:11	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:26	KMP	TAL BUF
Total/NA	Analysis	310.2		1	489127	08/27/19 22:16	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 10:14	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:45	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:49	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:19	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 10:07	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 12:15	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Client Sample ID: SW-203
Lab Sample ID: 480-158077-5
Date Collected: 08/22/19 09:55
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:15	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:28	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:22	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:04	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:31	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489964	09/03/19 13:23	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:49	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:30	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	489215	08/27/19 21:06	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 09:55	FLD	TAL BUF

Client Sample ID: SW-204
Lab Sample ID: 480-158077-6
Date Collected: 08/22/19 11:40
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:19	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:30	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:22	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488781	08/26/19 10:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:32	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:49	SRW	TAL BUF
Total/NA	Analysis	9251		1	489126	08/27/19 22:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 11:09	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 11:40	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Client Sample ID: SW-801

Date Collected: 08/22/19 09:40
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-7

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:23	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:32	KMP	TAL BUF
Total/NA	Analysis	310.2		1	489127	08/27/19 21:17	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:06	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:40	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 20:14	SRW	TAL BUF
Total/NA	Analysis	9251		1	489319	08/28/19 20:16	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 11:24	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 09:40	FLD	TAL BUF

Client Sample ID: SW-9

Date Collected: 08/22/19 13:10
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-8

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:27	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:44	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:49	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 15:09	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 20:48	SRW	TAL BUF
Total/NA	Analysis	9251		1	489126	08/27/19 22:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	489215	08/27/19 21:22	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 13:10	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Client Sample ID: SW-A
Lab Sample ID: 480-158077-9
Date Collected: 08/22/19 10:24
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 20:42	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:54	KMP	TAL BUF
Total/NA	Analysis	310.2		2	489127	08/28/19 00:28	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:10	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:41	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:36	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:31	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	488679	08/24/19 11:55	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 10:24	FLD	TAL BUF

Client Sample ID: SW-B
Lab Sample ID: 480-158077-10
Date Collected: 08/22/19 10:45
Matrix: Surface Water
Date Received: 08/23/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 21:02	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:56	KMP	TAL BUF
Total/NA	Analysis	310.2		1	489127	08/27/19 22:16	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 16:42	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:36	SRW	TAL BUF
Total/NA	Analysis	9251		1	488907	08/26/19 21:31	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	489659	08/30/19 11:52	ZFM	TAL BUF
Total/NA	Analysis	SM 5310C		1	489215	08/27/19 21:37	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 10:45	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Client Sample ID: SW-C
Date Collected: 08/22/19 11:00
Date Received: 08/23/19 09:00

Lab Sample ID: 480-158077-11
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			488661	08/26/19 09:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	488916	08/26/19 21:05	LMH	TAL BUF
Total/NA	Prep	3020A			488660	08/26/19 08:35	NSW	TAL BUF
Total/NA	Analysis	6020A		1	489173	08/27/19 15:58	KMP	TAL BUF
Total/NA	Analysis	310.2		1	488908	08/26/19 21:49	SRW	TAL BUF
Total/NA	Analysis	350.1		1	488778	08/26/19 09:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	488611	08/23/19 15:12	RLM	TAL BUF
Total/NA	Analysis	410.4		1	489521	08/29/19 15:50	CSS	TAL BUF
Total/NA	Analysis	9038		1	489525	08/29/19 19:36	SRW	TAL BUF
Total/NA	Analysis	9251		1	489126	08/27/19 22:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	491509	09/11/19 14:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	488542	08/23/19 11:18	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	489247	08/28/19 12:25	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	489215	08/27/19 21:52	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	488841	08/22/19 11:00	FLD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Surface Water	Sulfate
9251		Surface Water	Chloride
Field Sampling		Surface Water	Depth to Water from Top of Casing
Field Sampling		Surface Water	Field EH/ORP
Field Sampling		Surface Water	Field pH
Field Sampling		Surface Water	Flow
Field Sampling		Surface Water	Oxygen, Dissolved
Field Sampling		Surface Water	Specific Conductance
Field Sampling		Surface Water	Temperature
Field Sampling		Surface Water	Turbidity
SM 1030E		Surface Water	Anion/Cation Balance
SM 1030E		Surface Water	Calculated TDS
SM 1030E		Surface Water	TDS Ratio
SM 1030E		Surface Water	TDS to Conductivity Ratio

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Surface Water

Job ID: 480-158077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158077-1	DUP-SW-01	Surface Water	08/22/19 11:40	08/23/19 09:00	
480-158077-2	SW-101	Surface Water	08/22/19 11:20	08/23/19 09:00	
480-158077-3	SW-102	Surface Water	08/22/19 12:30	08/23/19 09:00	
480-158077-4	SW-201	Surface Water	08/22/19 12:15	08/23/19 09:00	
480-158077-5	SW-203	Surface Water	08/22/19 09:55	08/23/19 09:00	
480-158077-6	SW-204	Surface Water	08/22/19 11:40	08/23/19 09:00	
480-158077-7	SW-801	Surface Water	08/22/19 09:40	08/23/19 09:00	
480-158077-8	SW-9	Surface Water	08/22/19 13:10	08/23/19 09:00	
480-158077-9	SW-A	Surface Water	08/22/19 10:24	08/23/19 09:00	
480-158077-10	SW-B	Surface Water	08/22/19 10:45	08/23/19 09:00	
480-158077-11	SW-C	Surface Water	08/22/19 11:00	08/23/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-158077-1
Project/Site: Crossroads ME-SA Surface Water

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Surface Water	Total/NA	ug/L	9.0	15
6010C	Calcium	Surface Water	Total/NA	ug/L	150	500
6010C	Iron	Surface Water	Total/NA	ug/L	30	50
6010C	Potassium	Surface Water	Total/NA	ug/L	200	500
6010C	Sodium	Surface Water	Total/NA	ug/L	400	1000
6020A	Lead	Surface Water	Total/NA	ug/L	0.40	1.0
9251	Chloride	Surface Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Surface Water	Total/NA	mg/L	5.0	10

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Loureiro / Katrina Arnold	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133040-23836.1
Client Contact: Sherwood McKenney	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Surface Water (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

480-158077 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation/Anion Balance	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total				Total Containers
Preservation Code:							S	D	N	A	N	N	N	N	N				
SW-101	8/22/19	1120		Water			1	1		2	1	1		2	1				9
SW-102	8/22/19	1230		Water			1	1		2	1	1		2	1				9
SW-201	8/22/19	1215		Water			1	1		2	1	1		2	1				9
SW-203	8/22/19	955		Water			1	1		2	1	1		2	1				4
SW-204	8/22/19	1140		Water			1	1		2	1	1		2	1				9
SW-801	8/22/19	940		Water			1	1		2	1	1		2	1				9
SW-9	8/22/19	1310		Water			1	1		2	1	1		2	1				9
SW-A	8/22/19	1024		Water			1	1		2	1	1		2	1				9
SW-B	8/22/19	1045		Water			1	1		2	1	1		2	1				9
SW-C	8/22/19	1100		Water			1	1		2	1	1		2	1				9
DUP-SW-01	8/22/19	1140		Water			1	1		2	1	1		2	1				9

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	8/22/19 1525		Received by:	8/23/19 0900	TAB
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3, 3.6, 3.4, 4.0

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: DUP-SW-01 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: ✓

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ✓ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 13.10 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 22 19	5.97	79	23.0	3.3	7.7	180.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Agustin Lascano		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____

Sample Point: SW-101 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: ____

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 110 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/22/19	5.04	44	20.6	1.62	8.9	192.9	S10W

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: none Color: yellow Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: SW-102 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): 120 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range of 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 22 19	6.36	105	22.2	18.4	6.7	135.1	510 W

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal
Odor: none
Color: yellowish
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: Calm
Outlook: Sunny
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and/or WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-201 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): 000 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Suggested Range for 3 consec. readings or per Permit/State requirements:

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLO Units
08/22/19	6.53	666	21.7	1.12	8.6	130.1	Shill

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal **Odor:** none **Color:** clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** calm **Outlook:** sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: SW-203 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) · 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): 200 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FIELD Units
08/22/19	7.03	82	20.4	2.3	10.0	193.1	SU

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal
Odor: None
Color: Yellowish
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: Calm
Outlook: Sunny
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: SW-204 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: /

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 130 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or code Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 22 19	5 9 7	7 9	2 3 0	3 3	7 7	1 8 0 6	stil l

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: Slight Color: Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Agustin Lovelly	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: SW-801 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 100 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units
08/22/19	7.34	1107	22.5	6.2	9.3	174.0	5.10 L

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: SW-9 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device:

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

Sample Tube Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 000 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	-	-	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/22/19	6.03	74	25	7.5	7.7	141.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: normal **Odor:** slight **Color:** yellow **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** calm **Outlook:** sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Agustin Loureiro	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: SW-1A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: ____

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 200 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/22/19	6.65	276	19.4	19.5	8.2	174.0	510 w

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: none Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Classroads

Site No.:

Sample Point: SW-8 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (Hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: /

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	150 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/22/19	7.06	73	19.2	1.1	1.10	72.8	S.U.

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal **Odor:** none **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** CALM **Outlook:** Sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Agustin Lorenzo		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: SW-C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 0.00 +50 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 22 19	5 1 5	4 2	1 9 4	3 2	6 9	2 1 9 8	fast

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/22/19	Katrina Aman	Katrina Aman	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158077-1

Login Number: 158077
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-158312-1
Client Project/Site: Crossroads ME-SA 8ALC/BLC/CLC
Sampling Event: Semi-Annual (8/ALC,BLC,CLC) (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
9/19/2019 8:56:16 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-158312-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158312-1

Comments
No additional comments.

Receipt
The samples were received on 8/29/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 8ALC (480-158312-1), (480-158312-I-1 MS), (480-158312-I-1 MSD), 8BLC (480-158312-2) and 8CLC (480-158312-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: 8ALC (480-158312-1), (480-158312-I-1 MS) and (480-158312-I-1 MSD).The samples were analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-490788 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: 8BLC (480-158312-2), 8CLC (480-158312-3) and TB (480-158312-4).

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: 8BLC (480-158312-2) and 8CLC (480-158312-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-490301/54) recovered above the upper control limit for Total Potassium. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 8ALC (480-158312-1), 8BLC (480-158312-2) and 8CLC (480-158312-3) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-158312-1), 8BLC (480-158312-2) and 8CLC (480-158312-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-158312-1), 8BLC (480-158312-2) and 8CLC (480-158312-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: 8ALC — Lab Sample ID: 480-158312-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.24		0.0090		mg/L	1		6010C	Total/NA
Barium	0.64		0.0050		mg/L	1		6010C	Total/NA
Calcium	97		0.15		mg/L	1		6010C	Total/NA
Chromium	0.11		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.022		0.0040		mg/L	1		6010C	Total/NA
Iron	8.9		0.030		mg/L	1		6010C	Total/NA
Magnesium	120		0.24		mg/L	1		6010C	Total/NA
Manganese	0.53		0.010		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Potassium	1200		5.0		mg/L	5		6010C	Total/NA
Sodium	1700		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.034		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	4200		450		mg/L	45		310.2	Total/NA
Ammonia as N	870		100		mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	1000		100		mg/L	10		410.4	Total/NA
Chloride	3600		38		mg/L	75		9251	Total/NA
Anion/Cation Balance	-21				%	1		SM 1030E	Total/NA
Calculated TDS	9200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.64				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.33				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	5900	BL	50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	31		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	230		4.0		mg/L	4		SM 5310C	Total/NA
Turbidity	43.9				NTU	1		Field Sampling	Total/NA
Temperature	25.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.38				SU	1		Field Sampling	Total/NA
Specific Conductance	18085				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	41.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8BLC — Lab Sample ID: 480-158312-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.21		0.0090		mg/L	1		6010C	Total/NA
Barium	0.67		0.0050		mg/L	1		6010C	Total/NA
Calcium	54		0.15		mg/L	1		6010C	Total/NA
Chromium	0.25		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.025		0.0040		mg/L	1		6010C	Total/NA
Iron	4.3		0.030		mg/L	1		6010C	Total/NA
Magnesium	97		0.24		mg/L	1		6010C	Total/NA
Manganese	0.22		0.010		mg/L	1		6010C	Total/NA
Nickel	0.20		0.040		mg/L	1		6010C	Total/NA
Potassium	1500		5.0		mg/L	5		6010C	Total/NA
Sodium	2200		2.0		mg/L	5		6010C	Total/NA
Vanadium	0.048		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	6600		800		mg/L	80		310.2	Total/NA
Ammonia as N	1500		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	1900		200		mg/L	20		410.4	Total/NA
Chloride	4200		43		mg/L	85		9251	Total/NA
Anion/Cation Balance	-27				%	1		SM 1030E	Total/NA
Calculated TDS	12000				mg/L	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: 8BLC (Continued)

Lab Sample ID: 480-158312-2

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
TDS Ratio	0.75				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	9000	BL	50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	370		10		mg/L	10		SM 5310C	Total/NA
Turbidity	5.5				NTU	1		Field Sampling	Total/NA
Temperature	27.2				Degrees C	1		Field Sampling	Total/NA
Field pH	7.59				SU	1		Field Sampling	Total/NA
Specific Conductance	23946				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-12.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.1				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8CLC

Lab Sample ID: 480-158312-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.19		0.0090		mg/L	1		6010C	Total/NA
Barium	0.38		0.0050		mg/L	1		6010C	Total/NA
Calcium	97		0.15		mg/L	1		6010C	Total/NA
Chromium	0.47		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.018		0.0040		mg/L	1		6010C	Total/NA
Iron	1.9		0.030		mg/L	1		6010C	Total/NA
Lead	0.0075		0.0050		mg/L	1		6010C	Total/NA
Magnesium	73		0.24		mg/L	1		6010C	Total/NA
Manganese	0.93		0.010		mg/L	1		6010C	Total/NA
Nickel	0.15		0.040		mg/L	1		6010C	Total/NA
Potassium	1000		2.0		mg/L	2		6010C	Total/NA
Sodium	1100		0.80		mg/L	2		6010C	Total/NA
Vanadium	0.058		0.025		mg/L	1		6010C	Total/NA
Zinc	0.054		0.020		mg/L	1		6010C	Total/NA
Aluminum	0.46		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	5000		930		mg/L	93		310.2	Total/NA
Ammonia as N	960		100		mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	1800		200		mg/L	20		410.4	Total/NA
Chloride	1700		23		mg/L	46		9251	Total/NA
Anion/Cation Balance	-27				%	1		SM 1030E	Total/NA
Calculated TDS	7000				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.82				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	3400		50		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	5700		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	14		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	380		10		mg/L	10		SM 5310C	Total/NA
Turbidity	38.1				NTU	1		Field Sampling	Total/NA
Temperature	27.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.55				SU	1		Field Sampling	Total/NA
Specific Conductance	15158				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	7.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-158312-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: 8ALC

Date Collected: 08/28/19 11:30
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	20		ug/L			08/31/19 23:36	20
1,1,2,2-Tetrachloroethane	ND	U	20		ug/L			08/31/19 23:36	20
1,1,2-Trichloroethane	ND	U	20		ug/L			08/31/19 23:36	20
1,1-Dichloroethane	ND	U	20		ug/L			08/31/19 23:36	20
1,1-Dichloroethene	ND	U	20		ug/L			08/31/19 23:36	20
1,2-Dichloroethane	ND	U	20		ug/L			08/31/19 23:36	20
1,2-Dichloropropane	ND	U	20		ug/L			08/31/19 23:36	20
2-Hexanone	ND	U	100		ug/L			08/31/19 23:36	20
2-Butanone	ND	U	200		ug/L			08/31/19 23:36	20
4-Methyl-2-pentanone	ND	U	100		ug/L			08/31/19 23:36	20
Acetone	ND	U	200		ug/L			08/31/19 23:36	20
Benzene	ND	U	20		ug/L			08/31/19 23:36	20
Bromodichloromethane	ND	U	20		ug/L			08/31/19 23:36	20
Bromoform	ND	U	20		ug/L			08/31/19 23:36	20
Bromomethane	ND	U	20		ug/L			08/31/19 23:36	20
Carbon disulfide	ND	U	20		ug/L			08/31/19 23:36	20
Carbon tetrachloride	ND	U	20		ug/L			08/31/19 23:36	20
Chlorobenzene	ND	U	20		ug/L			08/31/19 23:36	20
Dibromochloromethane	ND	U	20		ug/L			08/31/19 23:36	20
Chloroethane	ND	U	20		ug/L			08/31/19 23:36	20
Chloroform	ND	U	20		ug/L			08/31/19 23:36	20
Chloromethane	ND	U	20		ug/L			08/31/19 23:36	20
cis-1,2-Dichloroethene	ND	U	20		ug/L			08/31/19 23:36	20
cis-1,3-Dichloropropene	ND	U	20		ug/L			08/31/19 23:36	20
Ethylbenzene	ND	U	20		ug/L			08/31/19 23:36	20
Methylene Chloride	ND	U	20		ug/L			08/31/19 23:36	20
Styrene	ND	U	20		ug/L			08/31/19 23:36	20
Tetrachloroethene	ND	U	20		ug/L			08/31/19 23:36	20
Toluene	ND	U	20		ug/L			08/31/19 23:36	20
trans-1,2-Dichloroethene	ND	U	20		ug/L			08/31/19 23:36	20
trans-1,3-Dichloropropene	ND	U	20		ug/L			08/31/19 23:36	20
Trichloroethene	ND	U	20		ug/L			08/31/19 23:36	20
Vinyl acetate	ND	U	100		ug/L			08/31/19 23:36	20
Vinyl chloride	ND	U	20		ug/L			08/31/19 23:36	20
Xylenes, Total	ND	U	40		ug/L			08/31/19 23:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*08/31/19 23:36*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/31/19 23:36*	*20*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*08/31/19 23:36*	*20*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*08/31/19 23:36*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.24**		0.0090		mg/L		09/03/19 08:26	09/04/19 12:53	1
Barium	**0.64**		0.0050		mg/L		09/03/19 08:26	09/03/19 22:57	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 12:53	1
Calcium	**97**		0.15		mg/L		09/03/19 08:26	09/03/19 22:57	1
Chromium	**0.11**		0.010		mg/L		09/03/19 08:26	09/03/19 22:57	1
Cobalt	**0.022**		0.0040		mg/L		09/03/19 08:26	09/03/19 22:57	1

Client Sample ID: 8ALC
Date Collected: 08/28/19 11:30
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-1
Matrix: Leachate

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 22:57	1
Iron	**8.9**		0.030		mg/L		09/03/19 08:26	09/03/19 22:57	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 22:57	1
Magnesium	**120**		0.24		mg/L		09/03/19 08:26	09/03/19 22:57	1
Manganese	**0.53**		0.010		mg/L		09/03/19 08:26	09/03/19 22:57	1
Nickel	**0.18**		0.040		mg/L		09/03/19 08:26	09/03/19 22:57	1
Potassium	**1200**		5.0		mg/L		09/03/19 08:26	09/04/19 12:56	5
Sodium	**1700**		2.0		mg/L		09/03/19 08:26	09/04/19 12:56	5
Vanadium	**0.034**		0.025		mg/L		09/03/19 08:26	09/03/19 22:57	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 22:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		09/06/19 12:51	09/06/19 16:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-21**				%			09/18/19 15:03	1
Calculated TDS	**9200**				mg/L			09/18/19 15:03	1
TDS Ratio	**0.64**				NONE			09/18/19 15:03	1
TDS to Conductivity Ratio	**0.33**				NONE			09/18/19 15:03	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**4200**		450		mg/L			08/30/19 20:21	45
Ammonia as N	**870**		100		mg/L		09/09/19 07:00	09/09/19 09:18	1
Nitrate	ND	U	0.050		mg/L as N			08/29/19 23:22	1
Chemical Oxygen Demand	**1000**		100		mg/L			09/05/19 19:33	10
Sulfate	ND	U	5.0		mg/L			09/03/19 15:16	1
Chloride	**3600**		38		mg/L			08/30/19 20:24	75
Total Dissolved Solids	**5900**	**BL**	50		mg/L			09/03/19 08:31	1
Total Organic Carbon	**230**		4.0		mg/L			08/30/19 22:25	4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**31**		4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**43.9**				NTU			08/28/19 11:30	1
Temperature	**25.3**				Degrees C			08/28/19 11:30	1
Field pH	**7.38**				SU			08/28/19 11:30	1
Specific Conductance	**18085**				umhos/cm			08/28/19 11:30	1
Field EH/ORP	**41.3**				millivolts			08/28/19 11:30	1
Oxygen, Dissolved	**4.6**				mg/L			08/28/19 11:30	1

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: 8BLC

Date Collected: 08/28/19 12:30
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-2

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	40		ug/L			09/09/19 00:15	40
1,1,2,2-Tetrachloroethane	ND	U	40		ug/L			09/09/19 00:15	40
1,1,2-Trichloroethane	ND	U	40		ug/L			09/09/19 00:15	40
1,1-Dichloroethane	ND	U	40		ug/L			09/09/19 00:15	40
1,1-Dichloroethene	ND	U	40		ug/L			09/09/19 00:15	40
1,2-Dichloroethane	ND	U	40		ug/L			09/09/19 00:15	40
1,2-Dichloropropane	ND	U	40		ug/L			09/09/19 00:15	40
2-Hexanone	ND	U	200		ug/L			09/09/19 00:15	40
2-Butanone	ND	U	400		ug/L			09/09/19 00:15	40
4-Methyl-2-pentanone	ND	U	200		ug/L			09/09/19 00:15	40
Acetone	ND	U	400		ug/L			09/09/19 00:15	40
Benzene	ND	U	40		ug/L			09/09/19 00:15	40
Bromodichloromethane	ND	U	40		ug/L			09/09/19 00:15	40
Bromoform	ND	U	40		ug/L			09/09/19 00:15	40
Bromomethane	ND	U	40		ug/L			09/09/19 00:15	40
Carbon disulfide	ND	U	40		ug/L			09/09/19 00:15	40
Carbon tetrachloride	ND	U	40		ug/L			09/09/19 00:15	40
Chlorobenzene	ND	U	40		ug/L			09/09/19 00:15	40
Dibromochloromethane	ND	U	40		ug/L			09/09/19 00:15	40
Chloroethane	ND	U *	40		ug/L			09/09/19 00:15	40
Chloroform	ND	U	40		ug/L			09/09/19 00:15	40
Chloromethane	ND	U	40		ug/L			09/09/19 00:15	40
cis-1,2-Dichloroethene	ND	U	40		ug/L			09/09/19 00:15	40
cis-1,3-Dichloropropene	ND	U	40		ug/L			09/09/19 00:15	40
Ethylbenzene	ND	U	40		ug/L			09/09/19 00:15	40
Methylene Chloride	ND	U	40		ug/L			09/09/19 00:15	40
Styrene	ND	U	40		ug/L			09/09/19 00:15	40
Tetrachloroethene	ND	U	40		ug/L			09/09/19 00:15	40
Toluene	ND	U	40		ug/L			09/09/19 00:15	40
trans-1,2-Dichloroethene	ND	U	40		ug/L			09/09/19 00:15	40
trans-1,3-Dichloropropene	ND	U	40		ug/L			09/09/19 00:15	40
Trichloroethene	ND	U	40		ug/L			09/09/19 00:15	40
Vinyl acetate	ND	U	200		ug/L			09/09/19 00:15	40
Vinyl chloride	ND	U	40		ug/L			09/09/19 00:15	40
Xylenes, Total	ND	U	80		ug/L			09/09/19 00:15	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*09/09/19 00:15*	*40*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/09/19 00:15*	*40*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/09/19 00:15*	*40*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*09/09/19 00:15*	*40*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.21**		0.0090		mg/L		09/03/19 08:26	09/04/19 13:00	1
Barium	**0.67**		0.0050		mg/L		09/03/19 08:26	09/03/19 23:01	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 13:00	1
Calcium	**54**		0.15		mg/L		09/03/19 08:26	09/03/19 23:01	1
Chromium	**0.25**		0.010		mg/L		09/03/19 08:26	09/03/19 23:01	1
Cobalt	**0.025**		0.0040		mg/L		09/03/19 08:26	09/03/19 23:01	1

Client Sample ID: 8BLC

Date Collected: 08/28/19 12:30
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-2

Matrix: Leachate

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 23:01	1
Iron	**4.3**		0.030		mg/L		09/03/19 08:26	09/03/19 23:01	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 23:01	1
Magnesium	**97**		0.24		mg/L		09/03/19 08:26	09/03/19 23:01	1
Manganese	**0.22**		0.010		mg/L		09/03/19 08:26	09/03/19 23:01	1
Nickel	**0.20**		0.040		mg/L		09/03/19 08:26	09/03/19 23:01	1
Potassium	**1500**		5.0		mg/L		09/03/19 08:26	09/04/19 13:04	5
Sodium	**2200**		2.0		mg/L		09/03/19 08:26	09/04/19 13:04	5
Vanadium	**0.048**		0.025		mg/L		09/03/19 08:26	09/03/19 23:01	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 23:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		09/10/19 09:35	09/13/19 06:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		09/06/19 12:51	09/06/19 16:13	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-27**				%			09/18/19 15:03	1
Calculated TDS	**12000**				mg/L			09/18/19 15:03	1
TDS Ratio	**0.75**				NONE			09/18/19 15:03	1
TDS to Conductivity Ratio	**0.38**				NONE			09/18/19 15:03	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**6600**		800		mg/L			08/30/19 20:21	80
Ammonia as N	**1500**		200		mg/L		09/09/19 07:00	09/09/19 09:44	2
Nitrate	ND	U	0.050		mg/L as N			08/29/19 23:23	1
Chemical Oxygen Demand	**1900**		200		mg/L			09/05/19 19:35	20
Sulfate	ND	U	5.0		mg/L			09/03/19 15:52	1
Chloride	**4200**		43		mg/L			08/30/19 20:24	85
Total Dissolved Solids	**9000**	**BL**	50		mg/L			09/03/19 08:31	1
Total Organic Carbon	**370**		10		mg/L			08/30/19 22:42	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**20**		4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.5**				NTU			08/28/19 12:30	1
Temperature	**27.2**				Degrees C			08/28/19 12:30	1
Field pH	**7.59**				SU			08/28/19 12:30	1
Specific Conductance	**23946**				umhos/cm			08/28/19 12:30	1
Field EH/ORP	**-12.8**				millivolts			08/28/19 12:30	1
Oxygen, Dissolved	**3.1**				mg/L			08/28/19 12:30	1

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: 8CLC

Date Collected: 08/28/19 12:45
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-3

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	80		ug/L			09/09/19 00:38	80
1,1,2,2-Tetrachloroethane	ND	U	80		ug/L			09/09/19 00:38	80
1,1,2-Trichloroethane	ND	U	80		ug/L			09/09/19 00:38	80
1,1-Dichloroethane	ND	U	80		ug/L			09/09/19 00:38	80
1,1-Dichloroethene	ND	U	80		ug/L			09/09/19 00:38	80
1,2-Dichloroethane	ND	U	80		ug/L			09/09/19 00:38	80
1,2-Dichloropropane	ND	U	80		ug/L			09/09/19 00:38	80
2-Hexanone	ND	U	400		ug/L			09/09/19 00:38	80
2-Butanone	ND	U	800		ug/L			09/09/19 00:38	80
4-Methyl-2-pentanone	ND	U	400		ug/L			09/09/19 00:38	80
Acetone	ND	U	800		ug/L			09/09/19 00:38	80
Benzene	ND	U	80		ug/L			09/09/19 00:38	80
Bromodichloromethane	ND	U	80		ug/L			09/09/19 00:38	80
Bromoform	ND	U	80		ug/L			09/09/19 00:38	80
Bromomethane	ND	U	80		ug/L			09/09/19 00:38	80
Carbon disulfide	ND	U	80		ug/L			09/09/19 00:38	80
Carbon tetrachloride	ND	U	80		ug/L			09/09/19 00:38	80
Chlorobenzene	ND	U	80		ug/L			09/09/19 00:38	80
Dibromochloromethane	ND	U	80		ug/L			09/09/19 00:38	80
Chloroethane	ND	U *	80		ug/L			09/09/19 00:38	80
Chloroform	ND	U	80		ug/L			09/09/19 00:38	80
Chloromethane	ND	U	80		ug/L			09/09/19 00:38	80
cis-1,2-Dichloroethene	ND	U	80		ug/L			09/09/19 00:38	80
cis-1,3-Dichloropropene	ND	U	80		ug/L			09/09/19 00:38	80
Ethylbenzene	ND	U	80		ug/L			09/09/19 00:38	80
Methylene Chloride	ND	U	80		ug/L			09/09/19 00:38	80
Styrene	ND	U	80		ug/L			09/09/19 00:38	80
Tetrachloroethene	ND	U	80		ug/L			09/09/19 00:38	80
Toluene	ND	U	80		ug/L			09/09/19 00:38	80
trans-1,2-Dichloroethene	ND	U	80		ug/L			09/09/19 00:38	80
trans-1,3-Dichloropropene	ND	U	80		ug/L			09/09/19 00:38	80
Trichloroethene	ND	U	80		ug/L			09/09/19 00:38	80
Vinyl acetate	ND	U	400		ug/L			09/09/19 00:38	80
Vinyl chloride	ND	U	80		ug/L			09/09/19 00:38	80
Xylenes, Total	ND	U	160		ug/L			09/09/19 00:38	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*09/09/19 00:38*	*80*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/09/19 00:38*	*80*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/09/19 00:38*	*80*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/09/19 00:38*	*80*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.19**		0.0090		mg/L		09/03/19 08:26	09/04/19 13:08	1
Barium	**0.38**		0.0050		mg/L		09/03/19 08:26	09/03/19 23:05	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 13:08	1
Calcium	**97**		0.15		mg/L		09/03/19 08:26	09/03/19 23:05	1
Chromium	**0.47**		0.010		mg/L		09/03/19 08:26	09/03/19 23:05	1
Cobalt	**0.018**		0.0040		mg/L		09/03/19 08:26	09/03/19 23:05	1

Client Sample ID: 8CLC

Date Collected: 08/28/19 12:45
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-3

Matrix: Leachate

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 23:05	1
Iron	**1.9**		0.030		mg/L		09/03/19 08:26	09/03/19 23:05	1
Lead	**0.0075**		0.0050		mg/L		09/03/19 08:26	09/03/19 23:05	1
Magnesium	**73**		0.24		mg/L		09/03/19 08:26	09/03/19 23:05	1
Manganese	**0.93**		0.010		mg/L		09/03/19 08:26	09/03/19 23:05	1
Nickel	**0.15**		0.040		mg/L		09/03/19 08:26	09/03/19 23:05	1
Potassium	**1000**		2.0		mg/L		09/03/19 08:26	09/04/19 13:12	2
Sodium	**1100**		0.80		mg/L		09/03/19 08:26	09/04/19 13:12	2
Vanadium	**0.058**		0.025		mg/L		09/03/19 08:26	09/03/19 23:05	1
Zinc	**0.054**		0.020		mg/L		09/03/19 08:26	09/03/19 23:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.46**		0.25		mg/L		09/10/19 09:35	09/13/19 17:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		09/06/19 12:51	09/06/19 16:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-27**				%			09/18/19 15:03	1
Calculated TDS	**7000**				mg/L			09/18/19 15:03	1
TDS Ratio	**0.82**				NONE			09/18/19 15:03	1
TDS to Conductivity Ratio	**0.38**				NONE			09/18/19 15:03	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**5000**		930		mg/L			08/30/19 20:21	93
Ammonia as N	**960**		100		mg/L		09/09/19 07:00	09/09/19 09:20	1
Nitrate	ND	U	0.050		mg/L as N			08/30/19 03:19	1
Chemical Oxygen Demand	**1800**		200		mg/L			09/05/19 19:38	20
Sulfate	ND	U	5.0		mg/L			09/03/19 15:52	1
Chloride	**1700**		23		mg/L			08/30/19 20:24	46
Total Dissolved Solids	**3400**		50		mg/L			09/03/19 11:08	1
Total Dissolved Solids	**5700**		50		mg/L			09/06/19 10:56	1
Total Organic Carbon	**380**		10		mg/L			08/30/19 22:59	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**14**		4.0		mg/L			09/04/19 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**38.1**				NTU			08/28/19 12:45	1
Temperature	**27.3**				Degrees C			08/28/19 12:45	1
Field pH	**7.55**				SU			08/28/19 12:45	1
Specific Conductance	**15158**				umhos/cm			08/28/19 12:45	1
Field EH/ORP	**7.8**				millivolts			08/28/19 12:45	1
Oxygen, Dissolved	**2.5**				mg/L			08/28/19 12:45	1

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: TB
Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-4
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			09/09/19 01:02	1
2-Hexanone	ND	U	5.0		ug/L			09/09/19 01:02	1
2-Butanone	ND	U	10		ug/L			09/09/19 01:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			09/09/19 01:02	1
Acetone	ND	U	10		ug/L			09/09/19 01:02	1
Benzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromodichloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromoform	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromomethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Carbon disulfide	ND	U	1.0		ug/L			09/09/19 01:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Chlorobenzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Dibromochloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Chloroethane	ND	U *	1.0		ug/L			09/09/19 01:02	1
Chloroform	ND	U	1.0		ug/L			09/09/19 01:02	1
Chloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			09/09/19 01:02	1
Ethylbenzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Methylene Chloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Styrene	ND	U	1.0		ug/L			09/09/19 01:02	1
Tetrachloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
Toluene	ND	U	1.0		ug/L			09/09/19 01:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			09/09/19 01:02	1
Trichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
Vinyl acetate	ND	U	5.0		ug/L			09/09/19 01:02	1
Vinyl chloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Xylenes, Total	ND	U	2.0		ug/L			09/09/19 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/09/19 01:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/09/19 01:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/09/19 01:02*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*09/09/19 01:02*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-158312-1	8ALC	108	99	104	108
480-158312-1 MS	8ALC	101	103	108	106
480-158312-1 MSD	8ALC	99	101	107	103
480-158312-2	8BLC	109	98	102	111
480-158312-3	8CLC	106	95	101	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-489762/5	Lab Control Sample	103	101	104	101
LCS 480-490788/5	Lab Control Sample	98	96	99	107
MB 480-489762/7	Method Blank	100	100	103	102
MB 480-490788/7	Method Blank	104	97	102	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-158312-4	TB	111	100	103	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-489762/7
Matrix: Water
Analysis Batch: 489762

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
1,1-Dichloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
1,1-Dichloroethene	ND	U	1.0		ug/L			08/31/19 16:24	1
1,2-Dichloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
1,2-Dichloropropane	ND	U	1.0		ug/L			08/31/19 16:24	1
2-Hexanone	ND	U	5.0		ug/L			08/31/19 16:24	1
2-Butanone	ND	U	10		ug/L			08/31/19 16:24	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			08/31/19 16:24	1
Acetone	ND	U	10		ug/L			08/31/19 16:24	1
Benzene	ND	U	1.0		ug/L			08/31/19 16:24	1
Bromodichloromethane	ND	U	1.0		ug/L			08/31/19 16:24	1
Bromoform	ND	U	1.0		ug/L			08/31/19 16:24	1
Bromomethane	ND	U	1.0		ug/L			08/31/19 16:24	1
Carbon disulfide	ND	U	1.0		ug/L			08/31/19 16:24	1
Carbon tetrachloride	ND	U	1.0		ug/L			08/31/19 16:24	1
Chlorobenzene	ND	U	1.0		ug/L			08/31/19 16:24	1
Dibromochloromethane	ND	U	1.0		ug/L			08/31/19 16:24	1
Chloroethane	ND	U	1.0		ug/L			08/31/19 16:24	1
Chloroform	ND	U	1.0		ug/L			08/31/19 16:24	1
Chloromethane	ND	U	1.0		ug/L			08/31/19 16:24	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			08/31/19 16:24	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			08/31/19 16:24	1
Ethylbenzene	ND	U	1.0		ug/L			08/31/19 16:24	1
Methylene Chloride	ND	U	1.0		ug/L			08/31/19 16:24	1
Styrene	ND	U	1.0		ug/L			08/31/19 16:24	1
Tetrachloroethene	ND	U	1.0		ug/L			08/31/19 16:24	1
Toluene	ND	U	1.0		ug/L			08/31/19 16:24	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			08/31/19 16:24	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			08/31/19 16:24	1
Trichloroethene	ND	U	1.0		ug/L			08/31/19 16:24	1
Vinyl acetate	ND	U	5.0		ug/L			08/31/19 16:24	1
Vinyl chloride	ND	U	1.0		ug/L			08/31/19 16:24	1
Xylenes, Total	ND	U	2.0		ug/L			08/31/19 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*08/31/19 16:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/31/19 16:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*08/31/19 16:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/31/19 16:24*	*1*

Lab Sample ID: LCS 480-489762/5
Matrix: Water
Analysis Batch: 489762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	23.3		ug/L		93	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-489762/5
Matrix: Water
Analysis Batch: 489762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	22.9		ug/L		91	77 - 120
1,1-Dichloroethene	25.0	23.5		ug/L		94	66 - 127
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	23.1		ug/L		92	76 - 120
2-Hexanone	125	121		ug/L		97	65 - 127
2-Butanone	125	133		ug/L		106	57 - 140
4-Methyl-2-pentanone	125	123		ug/L		98	71 - 125
Acetone	125	135		ug/L		108	56 - 142
Benzene	25.0	22.6		ug/L		90	71 - 124
Bromodichloromethane	25.0	23.4		ug/L		94	80 - 122
Bromoform	25.0	26.5		ug/L		106	61 - 132
Bromomethane	25.0	21.1		ug/L		84	55 - 144
Carbon disulfide	25.0	23.2		ug/L		93	59 - 134
Carbon tetrachloride	25.0	23.4		ug/L		94	72 - 134
Chlorobenzene	25.0	22.3		ug/L		89	80 - 120
Dibromochloromethane	25.0	24.5		ug/L		98	75 - 125
Chloroethane	25.0	21.2		ug/L		85	69 - 136
Chloroform	25.0	20.6		ug/L		82	73 - 127
Chloromethane	25.0	21.0		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	74 - 124
Ethylbenzene	25.0	22.9		ug/L		92	77 - 123
Methylene Chloride	25.0	21.3		ug/L		85	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	23.5		ug/L		94	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	22.5		ug/L		90	74 - 123
Vinyl acetate	50.0	57.3		ug/L		115	50 - 144
Vinyl chloride	25.0	21.7		ug/L		87	65 - 133
Xylenes, Total	50.0	47.1		ug/L		94	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-158312-1 MS
Matrix: Leachate
Analysis Batch: 489762

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	U	500	483		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	ND	U	500	465		ug/L		93	76 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-158312-1 MS
Matrix: Leachate
Analysis Batch: 489762

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND	U	500	482		ug/L		96	76 - 122
1,1-Dichloroethane	ND	U	500	472		ug/L		94	77 - 120
1,1-Dichloroethene	ND	U	500	519		ug/L		104	66 - 127
1,2-Dichloroethane	ND	U	500	457		ug/L		91	75 - 120
1,2-Dichloropropane	ND	U	500	467		ug/L		93	76 - 120
2-Hexanone	ND	U	2500	2480		ug/L		99	65 - 127
2-Butanone	ND	U	2500	2620		ug/L		105	57 - 140
4-Methyl-2-pentanone	ND	U	2500	2570		ug/L		103	71 - 125
Acetone	ND	U	2500	2540		ug/L		101	56 - 142
Benzene	ND	U	500	487		ug/L		97	71 - 124
Bromodichloromethane	ND	U	500	492		ug/L		98	80 - 122
Bromoform	ND	U	500	525		ug/L		105	61 - 132
Bromomethane	ND	U	500	444		ug/L		89	55 - 144
Carbon disulfide	ND	U	500	487		ug/L		97	59 - 134
Carbon tetrachloride	ND	U	500	512		ug/L		102	72 - 134
Chlorobenzene	ND	U	500	494		ug/L		99	80 - 120
Dibromochloromethane	ND	U	500	511		ug/L		102	75 - 125
Chloroethane	ND	U	500	470		ug/L		94	69 - 136
Chloroform	ND	U	500	450		ug/L		90	73 - 127
Chloromethane	ND	U	500	463		ug/L		93	68 - 124
cis-1,2-Dichloroethene	ND	U	500	507		ug/L		101	74 - 124
cis-1,3-Dichloropropene	ND	U	500	471		ug/L		94	74 - 124
Ethylbenzene	ND	U	500	502		ug/L		100	77 - 123
Methylene Chloride	ND	U	500	433		ug/L		87	75 - 124
Styrene	ND	U	500	522		ug/L		104	80 - 120
Tetrachloroethene	ND	U	500	519		ug/L		104	74 - 122
Toluene	ND	U	500	483		ug/L		97	80 - 122
trans-1,2-Dichloroethene	ND	U	500	480		ug/L		96	73 - 127
trans-1,3-Dichloropropene	ND	U	500	477		ug/L		95	80 - 120
Trichloroethene	ND	U	500	481		ug/L		96	74 - 123
Vinyl acetate	ND	U	1000	1130		ug/L		113	50 - 144
Vinyl chloride	ND	U	500	477		ug/L		95	65 - 133
Xylenes, Total	ND	U	1000	1030		ug/L		103	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

Lab Sample ID: 480-158312-1 MSD
Matrix: Leachate
Analysis Batch: 489762

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	U	500	494		ug/L		99	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND	U	500	466		ug/L		93	76 - 120	0	15
1,1,2-Trichloroethane	ND	U	500	475		ug/L		95	76 - 122	1	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-158312-1 MSD
Matrix: Leachate
Analysis Batch: 489762

Client Sample ID: 8ALC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND	U	500	462		ug/L		92	77 - 120	2	20
1,1-Dichloroethene	ND	U	500	507		ug/L		101	66 - 127	2	16
1,2-Dichloroethane	ND	U	500	463		ug/L		93	75 - 120	1	20
1,2-Dichloropropane	ND	U	500	472		ug/L		94	76 - 120	1	20
2-Hexanone	ND	U	2500	2450		ug/L		98	65 - 127	1	15
2-Butanone	ND	U	2500	2650		ug/L		106	57 - 140	1	20
4-Methyl-2-pentanone	ND	U	2500	2510		ug/L		100	71 - 125	3	35
Acetone	ND	U	2500	2430		ug/L		97	56 - 142	4	15
Benzene	ND	U	500	474		ug/L		95	71 - 124	3	13
Bromodichloromethane	ND	U	500	491		ug/L		98	80 - 122	0	15
Bromoform	ND	U	500	501		ug/L		100	61 - 132	5	15
Bromomethane	ND	U	500	442		ug/L		88	55 - 144	0	15
Carbon disulfide	ND	U	500	488		ug/L		98	59 - 134	0	15
Carbon tetrachloride	ND	U	500	494		ug/L		99	72 - 134	4	15
Chlorobenzene	ND	U	500	471		ug/L		94	80 - 120	5	25
Dibromochloromethane	ND	U	500	509		ug/L		102	75 - 125	0	15
Chloroethane	ND	U	500	442		ug/L		88	69 - 136	6	15
Chloroform	ND	U	500	430		ug/L		86	73 - 127	5	20
Chloromethane	ND	U	500	453		ug/L		91	68 - 124	2	15
cis-1,2-Dichloroethene	ND	U	500	487		ug/L		97	74 - 124	4	15
cis-1,3-Dichloropropene	ND	U	500	456		ug/L		91	74 - 124	3	15
Ethylbenzene	ND	U	500	468		ug/L		94	77 - 123	7	15
Methylene Chloride	ND	U	500	446		ug/L		89	75 - 124	3	15
Styrene	ND	U	500	501		ug/L		100	80 - 120	4	20
Tetrachloroethene	ND	U	500	500		ug/L		100	74 - 122	4	20
Toluene	ND	U	500	460		ug/L		92	80 - 122	5	15
trans-1,2-Dichloroethene	ND	U	500	473		ug/L		95	73 - 127	2	20
trans-1,3-Dichloropropene	ND	U	500	462		ug/L		92	80 - 120	3	15
Trichloroethene	ND	U	500	478		ug/L		96	74 - 123	1	16
Vinyl acetate	ND	U	1000	1130		ug/L		113	50 - 144	0	23
Vinyl chloride	ND	U	500	458		ug/L		92	65 - 133	4	15
Xylenes, Total	ND	U	1000	976		ug/L		98	76 - 122	5	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: MB 480-490788/7
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-490788/7
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	U	1.0		ug/L			09/08/19 23:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			09/08/19 23:02	1
2-Hexanone	ND	U	5.0		ug/L			09/08/19 23:02	1
2-Butanone	ND	U	10		ug/L			09/08/19 23:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			09/08/19 23:02	1
Acetone	ND	U	10		ug/L			09/08/19 23:02	1
Benzene	ND	U	1.0		ug/L			09/08/19 23:02	1
Bromodichloromethane	ND	U	1.0		ug/L			09/08/19 23:02	1
Bromoform	ND	U	1.0		ug/L			09/08/19 23:02	1
Bromomethane	ND	U	1.0		ug/L			09/08/19 23:02	1
Carbon disulfide	ND	U	1.0		ug/L			09/08/19 23:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			09/08/19 23:02	1
Chlorobenzene	ND	U	1.0		ug/L			09/08/19 23:02	1
Dibromochloromethane	ND	U	1.0		ug/L			09/08/19 23:02	1
Chloroethane	ND	U	1.0		ug/L			09/08/19 23:02	1
Chloroform	ND	U	1.0		ug/L			09/08/19 23:02	1
Chloromethane	ND	U	1.0		ug/L			09/08/19 23:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			09/08/19 23:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			09/08/19 23:02	1
Ethylbenzene	ND	U	1.0		ug/L			09/08/19 23:02	1
Methylene Chloride	ND	U	1.0		ug/L			09/08/19 23:02	1
Styrene	ND	U	1.0		ug/L			09/08/19 23:02	1
Tetrachloroethene	ND	U	1.0		ug/L			09/08/19 23:02	1
Toluene	ND	U	1.0		ug/L			09/08/19 23:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			09/08/19 23:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			09/08/19 23:02	1
Trichloroethene	ND	U	1.0		ug/L			09/08/19 23:02	1
Vinyl acetate	ND	U	5.0		ug/L			09/08/19 23:02	1
Vinyl chloride	ND	U	1.0		ug/L			09/08/19 23:02	1
Xylenes, Total	ND	U	2.0		ug/L			09/08/19 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/08/19 23:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/08/19 23:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/08/19 23:02*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/08/19 23:02*	*1*

Lab Sample ID: LCS 480-490788/5
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	25.9		ug/L		104	73 - 126		
1,1,2,2-Tetrachloroethane			25.0	23.7		ug/L		95	76 - 120		
1,1,2-Trichloroethane			25.0	24.5		ug/L		98	76 - 122		
1,1-Dichloroethane			25.0	25.1		ug/L		100	77 - 120		
1,1-Dichloroethene			25.0	27.5		ug/L		110	66 - 127		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-490788/5
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	24.3		ug/L		97	76 - 120
2-Hexanone	125	117		ug/L		93	65 - 127
2-Butanone	125	116		ug/L		93	57 - 140
4-Methyl-2-pentanone	125	112		ug/L		90	71 - 125
Acetone	125	109		ug/L		88	56 - 142
Benzene	25.0	25.4		ug/L		101	71 - 124
Bromodichloromethane	25.0	25.0		ug/L		100	80 - 122
Bromoform	25.0	25.7		ug/L		103	61 - 132
Bromomethane	25.0	31.0		ug/L		124	55 - 144
Carbon disulfide	25.0	25.7		ug/L		103	59 - 134
Carbon tetrachloride	25.0	25.5		ug/L		102	72 - 134
Chlorobenzene	25.0	23.7		ug/L		95	80 - 120
Dibromochloromethane	25.0	25.4		ug/L		102	75 - 125
Chloroethane	25.0	35.0	*	ug/L		140	69 - 136
Chloroform	25.0	25.4		ug/L		102	73 - 127
Chloromethane	25.0	28.1		ug/L		112	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	74 - 124
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Methylene Chloride	25.0	25.1		ug/L		100	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	22.9		ug/L		91	80 - 120
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Vinyl acetate	50.0	48.7		ug/L		97	50 - 144
Vinyl chloride	25.0	29.1		ug/L		117	65 - 133
Xylenes, Total	50.0	48.1		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-489711/1-A
Matrix: Water
Analysis Batch: 490049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489711

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 20:59	1
Calcium	ND	U	0.15		mg/L		09/03/19 08:26	09/03/19 20:59	1
Chromium	ND	U	0.010		mg/L		09/03/19 08:26	09/03/19 20:59	1
Cobalt	ND	U	0.0040		mg/L		09/03/19 08:26	09/03/19 20:59	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 20:59	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-489711/1-A
Matrix: Water
Analysis Batch: 490049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489711

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030		mg/L		09/03/19 08:26	09/03/19 20:59	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 20:59	1
Magnesium	ND	U	0.24		mg/L		09/03/19 08:26	09/03/19 20:59	1
Manganese	ND	U	0.010		mg/L		09/03/19 08:26	09/03/19 20:59	1
Nickel	ND	U	0.040		mg/L		09/03/19 08:26	09/03/19 20:59	1
Potassium	ND	U	1.0		mg/L		09/03/19 08:26	09/03/19 20:59	1
Sodium	ND	U	0.40		mg/L		09/03/19 08:26	09/03/19 20:59	1
Vanadium	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 20:59	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 20:59	1

Lab Sample ID: MB 480-489711/1-A
Matrix: Water
Analysis Batch: 490301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489711

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/03/19 08:26	09/04/19 11:24	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 11:24	1

Lab Sample ID: LCS 480-489711/2-A
Matrix: Water
Analysis Batch: 490049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489711

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			0.200	0.201		mg/L		100	80 - 120		
Calcium			10.0	9.42		mg/L		94	80 - 120		
Chromium			0.200	0.191		mg/L		95	80 - 120		
Cobalt			0.200	0.187		mg/L		94	80 - 120		
Copper			0.200	0.185		mg/L		92	80 - 120		
Iron			10.0	10.3		mg/L		103	80 - 120		
Lead			0.200	0.194		mg/L		97	80 - 120		
Magnesium			10.0	9.85		mg/L		99	80 - 120		
Manganese			0.200	0.209		mg/L		104	80 - 120		
Nickel			0.200	0.204		mg/L		102	80 - 120		
Potassium			10.0	9.59		mg/L		96	80 - 120		
Sodium			10.0	9.41		mg/L		94	80 - 120		
Vanadium			0.200	0.208		mg/L		104	80 - 120		
Zinc			0.200	0.206		mg/L		103	80 - 120		

Lab Sample ID: LCS 480-489711/2-A
Matrix: Water
Analysis Batch: 490301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489711

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.200		mg/L		100	80 - 120		
Cadmium			0.200	0.202		mg/L		101	80 - 120		

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-490597/1-A
Matrix: Water
Analysis Batch: 490700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490597

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		09/06/19 12:51	09/06/19 15:59	1

Lab Sample ID: LCS 480-490597/2-A
Matrix: Water
Analysis Batch: 490700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00708		mg/L		106	80 - 120		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-489741/31
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			08/30/19 20:07	1

Lab Sample ID: LCS 480-489741/32
Matrix: Water
Analysis Batch: 489741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.0		mg/L		98	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-490853/1-A
Matrix: Water
Analysis Batch: 490880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L		09/09/19 07:00	09/09/19 09:12	1

Lab Sample ID: LCS 480-490853/2-A
Matrix: Water
Analysis Batch: 490880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.925		mg/L		93	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-490512/28
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			09/05/19 20:25	1

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-490512/4
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			09/05/19 19:19	1

Lab Sample ID: LCS 480-490512/29
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-490512/5
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	23.8		mg/L		95	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-489995/46
Matrix: Water
Analysis Batch: 489995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			09/03/19 15:37	1

Lab Sample ID: LCS 480-489995/45
Matrix: Water
Analysis Batch: 489995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	27.9		mg/L		93	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-489740/30
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			08/30/19 20:13	1

Lab Sample ID: LCS 480-489740/31
Matrix: Water
Analysis Batch: 489740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.0		mg/L		100	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-489846/1
Matrix: Water
Analysis Batch: 489846

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.00		5.0		mg/L			09/03/19 08:31	1

Lab Sample ID: LCS 480-489846/2
Matrix: Water
Analysis Batch: 489846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	451		mg/L		90	85 - 115		

Lab Sample ID: MB 480-490590/1
Matrix: Water
Analysis Batch: 490590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/06/19 10:56	1

Lab Sample ID: LCS 480-490590/2
Matrix: Water
Analysis Batch: 490590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	450		mg/L		90	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-490068/1
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/04/19 09:17	1

Lab Sample ID: LCS 480-490068/2
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			247	244		mg/L		99	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-490179/4
Matrix: Water
Analysis Batch: 490179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			08/30/19 18:03	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-490179/5
Matrix: Water
Analysis Batch: 490179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	57.1		mg/L		95	90 - 110

GC/MS VOA

Analysis Batch: 489762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	8260C	
MB 480-489762/7	Method Blank	Total/NA	Water	8260C	
LCS 480-489762/5	Lab Control Sample	Total/NA	Water	8260C	
480-158312-1 MS	8ALC	Total/NA	Leachate	8260C	
480-158312-1 MSD	8ALC	Total/NA	Leachate	8260C	

Analysis Batch: 490788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-2	8BLC	Total/NA	Leachate	8260C	
480-158312-3	8CLC	Total/NA	Leachate	8260C	
480-158312-4	TB	Total/NA	WQ	8260C	
MB 480-490788/7	Method Blank	Total/NA	Water	8260C	
LCS 480-490788/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 489711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	3005A	
480-158312-2	8BLC	Total/NA	Leachate	3005A	
480-158312-3	8CLC	Total/NA	Leachate	3005A	
MB 480-489711/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 490049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	6010C	489711
480-158312-2	8BLC	Total/NA	Leachate	6010C	489711
480-158312-3	8CLC	Total/NA	Leachate	6010C	489711
MB 480-489711/1-A	Method Blank	Total/NA	Water	6010C	489711
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	6010C	489711

Analysis Batch: 490301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	6010C	489711
480-158312-1	8ALC	Total/NA	Leachate	6010C	489711
480-158312-2	8BLC	Total/NA	Leachate	6010C	489711
480-158312-2	8BLC	Total/NA	Leachate	6010C	489711
480-158312-3	8CLC	Total/NA	Leachate	6010C	489711
480-158312-3	8CLC	Total/NA	Leachate	6010C	489711
MB 480-489711/1-A	Method Blank	Total/NA	Water	6010C	489711
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	6010C	489711

Prep Batch: 490597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	7470A	
480-158312-2	8BLC	Total/NA	Leachate	7470A	
480-158312-3	8CLC	Total/NA	Leachate	7470A	
MB 480-490597/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-490597/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals

Analysis Batch: 490700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	7470A	490597
480-158312-2	8BLC	Total/NA	Leachate	7470A	490597
480-158312-3	8CLC	Total/NA	Leachate	7470A	490597
MB 480-490597/1-A	Method Blank	Total/NA	Water	7470A	490597
LCS 480-490597/2-A	Lab Control Sample	Total/NA	Water	7470A	490597

Prep Batch: 585476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	3010A	
480-158312-2	8BLC	Total/NA	Leachate	3010A	
480-158312-3	8CLC	Total/NA	Leachate	3010A	

Analysis Batch: 586051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	6020A	585476
480-158312-2	8BLC	Total/NA	Leachate	6020A	585476

Analysis Batch: 586185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-3	8CLC	Total/NA	Leachate	6020A	585476

General Chemistry

Analysis Batch: 489541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	353.2	
480-158312-2	8BLC	Total/NA	Leachate	353.2	
480-158312-3	8CLC	Total/NA	Leachate	353.2	

Analysis Batch: 489740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	9251	
480-158312-2	8BLC	Total/NA	Leachate	9251	
480-158312-3	8CLC	Total/NA	Leachate	9251	
MB 480-489740/30	Method Blank	Total/NA	Water	9251	
LCS 480-489740/31	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 489741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	310.2	
480-158312-2	8BLC	Total/NA	Leachate	310.2	
480-158312-3	8CLC	Total/NA	Leachate	310.2	
MB 480-489741/31	Method Blank	Total/NA	Water	310.2	
LCS 480-489741/32	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 489846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	SM 2540C	
480-158312-2	8BLC	Total/NA	Leachate	SM 2540C	
MB 480-489846/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489846/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 489892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-3	8CLC	Total/NA	Leachate	SM 2540C	

Analysis Batch: 489995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	9038	
480-158312-2	8BLC	Total/NA	Leachate	9038	
480-158312-3	8CLC	Total/NA	Leachate	9038	
MB 480-489995/46	Method Blank	Total/NA	Water	9038	
LCS 480-489995/45	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 490068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	SM 2540D	
480-158312-2	8BLC	Total/NA	Leachate	SM 2540D	
480-158312-3	8CLC	Total/NA	Leachate	SM 2540D	
MB 480-490068/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-490068/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 490179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	SM 5310C	
480-158312-2	8BLC	Total/NA	Leachate	SM 5310C	
480-158312-3	8CLC	Total/NA	Leachate	SM 5310C	
MB 480-490179/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-490179/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 490512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	410.4	
480-158312-2	8BLC	Total/NA	Leachate	410.4	
480-158312-3	8CLC	Total/NA	Leachate	410.4	
MB 480-490512/28	Method Blank	Total/NA	Water	410.4	
MB 480-490512/4	Method Blank	Total/NA	Water	410.4	
LCS 480-490512/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-490512/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 490590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-3	8CLC	Total/NA	Leachate	SM 2540C	
MB 480-490590/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-490590/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 490853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	Distill/Ammonia	
480-158312-2	8BLC	Total/NA	Leachate	Distill/Ammonia	
480-158312-3	8CLC	Total/NA	Leachate	Distill/Ammonia	
MB 480-490853/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-490853/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

General Chemistry

Analysis Batch: 490880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	350.1	490853
480-158312-3	8CLC	Total/NA	Leachate	350.1	490853
MB 480-490853/1-A	Method Blank	Total/NA	Water	350.1	490853
LCS 480-490853/2-A	Lab Control Sample	Total/NA	Water	350.1	490853

Analysis Batch: 490886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-2	8BLC	Total/NA	Leachate	350.1	490853

Analysis Batch: 492765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	SM 1030E	
480-158312-2	8BLC	Total/NA	Leachate	SM 1030E	
480-158312-3	8CLC	Total/NA	Leachate	SM 1030E	

Field Service / Mobile Lab

Analysis Batch: 489419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158312-1	8ALC	Total/NA	Leachate	Field Sampling	
480-158312-2	8BLC	Total/NA	Leachate	Field Sampling	
480-158312-3	8CLC	Total/NA	Leachate	Field Sampling	

Client Sample ID: 8ALC

Lab Sample ID: 480-158312-1

Date Collected: 08/28/19 11:30

Matrix: Leachate

Date Received: 08/29/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	489762	08/31/19 23:36	KMN	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490049	09/03/19 22:57	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490301	09/04/19 12:53	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		5	490301	09/04/19 12:56	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:30	BJB	TAL SAV
Total/NA	Prep	7470A			490597	09/06/19 12:51	BMB	TAL BUF
Total/NA	Analysis	7470A		1	490700	09/06/19 16:12	BMB	TAL BUF
Total/NA	Analysis	310.2		45	489741	08/30/19 20:21	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			490853	09/09/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	490880	09/09/19 09:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489541	08/29/19 23:22	BEF	TAL BUF
Total/NA	Analysis	410.4		10	490512	09/05/19 19:33	CSS	TAL BUF
Total/NA	Analysis	9038		1	489995	09/03/19 15:16	SRW	TAL BUF
Total/NA	Analysis	9251		75	489740	08/30/19 20:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492765	09/18/19 15:03	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489846	09/03/19 08:31	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		4	490179	08/30/19 22:25	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489419	08/28/19 11:30	FLD	TAL BUF

Client Sample ID: 8BLC

Lab Sample ID: 480-158312-2

Date Collected: 08/28/19 12:30

Matrix: Leachate

Date Received: 08/29/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	490788	09/09/19 00:15	KMN	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490049	09/03/19 23:01	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490301	09/04/19 13:00	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		5	490301	09/04/19 13:04	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586051	09/13/19 06:26	BJB	TAL SAV
Total/NA	Prep	7470A			490597	09/06/19 12:51	BMB	TAL BUF
Total/NA	Analysis	7470A		1	490700	09/06/19 16:13	BMB	TAL BUF
Total/NA	Analysis	310.2		80	489741	08/30/19 20:21	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			490853	09/09/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	490886	09/09/19 09:44	CLT	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Client Sample ID: 8BLC
Lab Sample ID: 480-158312-2
Date Collected: 08/28/19 12:30
Matrix: Leachate
Date Received: 08/29/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	489541	08/29/19 23:23	BEF	TAL BUF
Total/NA	Analysis	410.4		20	490512	09/05/19 19:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	489995	09/03/19 15:52	SRW	TAL BUF
Total/NA	Analysis	9251		85	489740	08/30/19 20:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492765	09/18/19 15:03	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489846	09/03/19 08:31	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		10	490179	08/30/19 22:42	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489419	08/28/19 12:30	FLD	TAL BUF

Client Sample ID: 8CLC
Lab Sample ID: 480-158312-3
Date Collected: 08/28/19 12:45
Matrix: Leachate
Date Received: 08/29/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	490788	09/09/19 00:38	KMN	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490049	09/03/19 23:05	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490301	09/04/19 13:08	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		2	490301	09/04/19 13:12	LMH	TAL BUF
Total/NA	Prep	3010A			585476	09/10/19 09:35	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586185	09/13/19 17:21	BJB	TAL SAV
Total/NA	Prep	7470A			490597	09/06/19 12:51	BMB	TAL BUF
Total/NA	Analysis	7470A		1	490700	09/06/19 16:14	BMB	TAL BUF
Total/NA	Analysis	310.2		93	489741	08/30/19 20:21	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			490853	09/09/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	490880	09/09/19 09:20	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489541	08/30/19 03:19	BEF	TAL BUF
Total/NA	Analysis	410.4		20	490512	09/05/19 19:38	CSS	TAL BUF
Total/NA	Analysis	9038		1	489995	09/03/19 15:52	SRW	TAL BUF
Total/NA	Analysis	9251		46	489740	08/30/19 20:24	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	492765	09/18/19 15:03	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	489892	09/03/19 11:08	ZFM	TAL BUF
Total/NA	Analysis	SM 2540C		1	490590	09/06/19 10:56	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		10	490179	08/30/19 22:59	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	489419	08/28/19 12:45	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Client Sample ID: TB
Lab Sample ID: 480-158312-4
Date Collected: 08/28/19 00:00
Matrix: WQ
Date Received: 08/29/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490788	09/09/19 01:02	KMN	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Leachate	Sulfate
9251		Leachate	Chloride
Field Sampling		Leachate	Field EH/ORP
Field Sampling		Leachate	Field pH
Field Sampling		Leachate	Oxygen, Dissolved
Field Sampling		Leachate	Specific Conductance
Field Sampling		Leachate	Temperature
Field Sampling		Leachate	Turbidity
SM 1030E		Leachate	Anion/Cation Balance
SM 1030E		Leachate	Calculated TDS
SM 1030E		Leachate	TDS Ratio
SM 1030E		Leachate	TDS to Conductivity Ratio

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158312-1	8ALC	Leachate	08/28/19 11:30	08/29/19 09:15	
480-158312-2	8BLC	Leachate	08/28/19 12:30	08/29/19 09:15	
480-158312-3	8CLC	Leachate	08/28/19 12:45	08/29/19 09:15	
480-158312-4	TB	WQ	08/28/19 00:00	08/29/19 09:15	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-158312-1
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Leachate	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Leachate	Total/NA	mg/L	0.15	0.50
6010C	Iron	Leachate	Total/NA	mg/L	0.030	0.05
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Sodium	Leachate	Total/NA	mg/L	0.40	1.0
6020A	Aluminum	Leachate	Total/NA	mg/L	0.050	0.1
9251	Chloride	Leachate	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Leachate	Total/NA	mg/L	5.0	10

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133018-29955.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual (8/ALC,BLC,CLC) (8,	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 7470A	Cation_Anion - Cation Anion Balance	8260C - Appendix I Volatiles	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (All)			Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	A	N	N	N	N	N	D				
8ALC	8/28/19	1130	G	Water	N	N	1	1	X	3	2	1	1	X	2	1	1			13	
8BLC	↓	1230	↓	Water	N	N	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓	
8CLC	↓	1245	↓	Water	N	N	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓	
TB				Water	N	N	↓			↓										3	

480-158312 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/28/19 1800	KAS	Cwalker	8/29/19 0915	FAO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.4

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-51361.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-158312-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 9/17/2019			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME-SA 8ALC/BLC/CLC	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A Total Metals ICPMS (Al)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
8ALC (480-158312-1)	8/28/19	11:30 Eastern		Water			X	1	
8BLC (480-158312-2)	8/28/19	12:30 Eastern		Water			X	1	
8CLC (480-158312-3)	8/28/19	12:45 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
1	Matthew C. Kolb	8/29/19 1700	TA		8/30/19 915	TASAV
2	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4 | 2.2

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: | Sample Point: 8ALC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: /

Sampling Device: F

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08/28/19	7.38	1805	25.3	4.39	*4.6	413	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: STRONG Color: BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

* DO = 4.6 mg/L

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8BLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	~~PURGE TIME~~ (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: /

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 28 19	7.59	23946	27.2	55	3.1	-128	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: STRONG Color: BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8CLC (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: /

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08/28/19	7.55	1515.8	27.3	3.81	2.5	78	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: STRONG Color: BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158312-1

Login Number: 158312

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	kas
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158312-1

Login Number: 158312
List Number: 2
Creator: Weston, Pamela

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/30/19 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-158313-1
Client Project/Site: Crossroads ME-SA Leachate Tank
Sampling Event: Semi-Annual Leachate Tank (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
9/23/2019 11:08:14 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-158313-1
Project/Site: Crossroads ME-SA Leachate Tank

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Not Detected above the associated Quantitaion Limit

GC Semi VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-158313-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158313-1

Comments
No additional comments.

Receipt
The samples were received on 8/29/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: TANK (480-158313-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following sample was analyzed after 7 days from sampling: TANK (480-158313-1).

Method(s) 8260C: The results reported for the following sample do not concur with results previously reported for this site: TB (480-158313-2). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: TANK (480-158313-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-158313-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-158313-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 9012B: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control samples in the original analysis : TANK (480-158313-1). Both sets of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-158313-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Client Sample ID: TANK — Lab Sample ID: 480-158313-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	12		1.0		ng/L	2		1631E	Total/NA
Arsenic	0.22		0.010		mg/L	1		6010C	Total/NA
Barium	0.45		0.0050		mg/L	1		6010C	Total/NA
Chromium	0.34		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.018		0.010		mg/L	1		6010C	Total/NA
Lead	0.0073		0.0050		mg/L	1		6010C	Total/NA
Nickel	0.14		0.040		mg/L	1		6010C	Total/NA
Zinc	0.035		0.020		mg/L	1		6010C	Total/NA
Aluminum	0.40		0.25		mg/L	1		6020A	Total/NA
Flashpoint	>176		50.0		Degrees F	1		1010A	Total/NA
Ammonia as N	1400		200		mg/L	2		350.1	Total/NA
Nitrite	0.11		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	1400		200		mg/L	20		410.4	Total/NA
Cyanide, Total	0.015		0.010		mg/L	1		9012B	Total/NA
pH	7.9		0.1		SU	1		9040C	Total/NA
Temperature	19.3		0.001		Degrees C	1		9040C	Total/NA
Anion/Cation Balance	100				%	1		SM 1030E	Total/NA
Calculated TDS	2500				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.36				NONE	1		SM 1030E	Total/NA
Hardness	600		100		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	5500		100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.4		4.0		mg/L	1		SM 2540D	Total/NA
Phosphorus	8.8		0.10		mg/L	10		SM 4500 P E	Total/NA
Biochemical Oxygen Demand	91		60		mg/L	1		SM 5210B	Total/NA
Escherichia coli	52		2		CFU/100mL	1		SM 9223B	Total/NA
Turbidity	16.0				NTU	1		Field Sampling	Total/NA
Temperature	27.7				Degrees C	1		Field Sampling	Total/NA
Field pH	7.81				SU	1		Field Sampling	Total/NA
Specific Conductance	15344				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	42.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-158313-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TANK

Date Collected: 08/28/19 13:15
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-1

Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	100		ug/L			09/09/19 01:26	20
Methyl Ethyl Ketone	ND	U	200		ug/L			09/09/19 01:26	20
Methyl isobutyl ketone	ND	U	100		ug/L			09/09/19 01:26	20
Acetone	ND	U	200		ug/L			09/09/19 01:26	20
Benzene	ND	U	20		ug/L			09/09/19 01:26	20
Methylene Chloride	ND	U	20		ug/L			09/09/19 01:26	20
Toluene	ND	U	20		ug/L			09/09/19 01:26	20
Xylenes, Total	ND	U	40		ug/L			09/09/19 01:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/09/19 01:26*	*20*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/09/19 01:26*	*20*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/09/19 01:26*	*20*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*09/09/19 01:26*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
2-Methylphenol	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
4-Methylphenol	ND	U	500		ug/L		08/30/19 15:27	09/03/19 20:35	10
Alpha-Terpineol	ND	U	500		ug/L		08/30/19 15:27	09/03/19 20:35	10
Benzoic acid	ND	U	7500		ug/L		08/30/19 15:27	09/03/19 20:35	10
Benzyl alcohol	ND	U	1000		ug/L		08/30/19 15:27	09/03/19 20:35	10
Fluoranthene	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
Naphthalene	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
Phenanthrene	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
Phenol	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10
Pyrene	ND	U	250		ug/L		08/30/19 15:27	09/03/19 20:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*72*		*46 - 120*	*08/30/19 15:27*	*09/03/19 20:35*	*10*
2-Fluorobiphenyl	*83*		*48 - 120*	*08/30/19 15:27*	*09/03/19 20:35*	*10*
p-Terphenyl-d14	*66*		*60 - 148*	*08/30/19 15:27*	*09/03/19 20:35*	*10*
Phenol-d5	*40*		*22 - 120*	*08/30/19 15:27*	*09/03/19 20:35*	*10*
2-Fluorophenol	*54*		*35 - 120*	*08/30/19 15:27*	*09/03/19 20:35*	*10*
2,4,6-Tribromophenol	*118*		*41 - 120*	*08/30/19 15:27*	*09/03/19 20:35*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.25		ug/L		08/30/19 15:41	09/03/19 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 120*	*08/30/19 15:41*	*09/03/19 12:45*	*1*
Tetrachloro-m-xylene	*84*		*44 - 120*	*08/30/19 15:41*	*09/03/19 12:45*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**12**		1.0		ng/L		09/11/19 17:00	09/17/19 08:30	2

Client Sample ID: TANK
Date Collected: 08/28/19 13:15
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-1
Matrix: Leachate

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.22**		0.010		mg/L		09/03/19 08:26	09/04/19 12:49	1
Barium	**0.45**		0.0050		mg/L		09/03/19 08:26	09/03/19 22:42	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 12:49	1
Chromium	**0.34**		0.010		mg/L		09/03/19 08:26	09/03/19 22:42	1
Cobalt	**0.018**		0.010		mg/L		09/03/19 08:26	09/03/19 22:42	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 22:42	1
Lead	**0.0073**		0.0050		mg/L		09/03/19 08:26	09/03/19 22:42	1
Nickel	**0.14**		0.040		mg/L		09/03/19 08:26	09/03/19 22:42	1
Selenium	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 12:49	1
Silver	ND	U	0.015		mg/L		09/03/19 08:26	09/03/19 22:42	1
Thallium	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 22:42	1
Zinc	**0.035**		0.020		mg/L		09/03/19 08:26	09/03/19 22:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.40**		0.25		mg/L		09/16/19 13:50	09/17/19 18:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**100**				%			09/18/19 15:03	1
Calculated TDS	**2500**				mg/L			09/18/19 15:03	1
TDS Ratio	**2.2**				NONE			09/18/19 15:03	1
TDS to Conductivity Ratio	**0.36**				NONE			09/18/19 15:03	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND	U	5.0		mg/L		08/30/19 09:07	08/30/19 11:44	1
Ammonia as N	**1400**		200		mg/L		09/09/19 07:00	09/09/19 09:45	2
Nitrate	ND	U	0.050		mg/L			08/30/19 05:56	1
Nitrite	**0.11**		0.050		mg/L			08/30/19 05:56	1
Chemical Oxygen Demand	**1400**		200		mg/L			09/05/19 19:41	20
Cyanide, Total	**0.015**		0.010		mg/L		09/08/19 15:09	09/09/19 16:12	1
Cyanide, Total	ND	U	0.010		mg/L		09/19/19 13:15	09/19/19 16:33	1
Hardness	**600**		100		mg/L			09/15/19 11:45	1
Total Dissolved Solids	**5500**		100		mg/L			09/03/19 08:31	1
Chlorine, Total Residual	ND	U	0.020		mg/L			08/31/19 12:45	1
Phosphorus	**8.8**		0.10		mg/L			09/09/19 11:40	10
Biochemical Oxygen Demand	**91**		60		mg/L			09/03/19 10:16	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		50.0		Degrees F			09/12/19 15:58	1
pH	**7.9**		0.1		SU			09/11/19 20:20	1
Temperature	**19.3**		0.001		Degrees C			09/11/19 20:20	1
Total Suspended Solids	**6.4**		4.0		mg/L			09/04/19 09:17	1

Method: SM 9223B - Coliforms, Total, and E.Coli

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	**52**		2		CFU/100mL			08/29/19 17:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**16.0**				NTU			08/28/19 13:15	1
Temperature	**27.7**				Degrees C			08/28/19 13:15	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Client Sample ID: TANK
Date Collected: 08/28/19 13:15
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-1
Matrix: Leachate

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.81				SU			08/28/19 13:15	1
Specific Conductance	15344				umhos/cm			08/28/19 13:15	1
Field EH/ORP	42.3				millivolts			08/28/19 13:15	1
Oxygen, Dissolved	4.5				mg/L			08/28/19 13:15	1

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Client Sample ID: TB

Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			09/09/19 01:50	1
Methyl Ethyl Ketone	ND	U	10		ug/L			09/09/19 01:50	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			09/09/19 01:50	1
Acetone	ND	U	10		ug/L			09/09/19 01:50	1
Benzene	ND	U	1.0		ug/L			09/09/19 01:50	1
Methylene Chloride	**3.9**		1.0		ug/L			09/09/19 01:50	1
Toluene	ND	U	1.0		ug/L			09/09/19 01:50	1
Xylenes, Total	ND	U	2.0		ug/L			09/09/19 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*09/09/19 01:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/09/19 01:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/09/19 01:50*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*09/09/19 01:50*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-158313-1	TANK	105	96	102	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-490788/5	Lab Control Sample	98	96	99	107
MB 480-490788/7	Method Blank	104	97	102	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-158313-2	TB	110	101	104	114

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(60-148)	(22-120)	(35-120)	(41-120)
480-158313-1	TANK	72	83	66	40	54	118

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: Waste Management
Job ID: 480-158313-1
Project/Site: Crossroads ME-SA Leachate Tank

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(60-148)	(22-120)	(35-120)	(41-120)
LCS 480-489695/2-A	Lab Control Sample	86	92	98	52	69	117
LCSD 480-489695/3-A	Lab Control Sample Dup	91	90	95	52	67	117
MB 480-489695/1-A	Method Blank	87	95	101	46	63	85

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(44-120)
480-158313-1	TANK	40	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(44-120)
LCS 480-489698/2-A	Lab Control Sample	47	76
LCSD 480-489698/3-A	Lab Control Sample Dup	47	79
MB 480-489698/1-A	Method Blank	51	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-490788/7
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			09/08/19 23:02	1
Methyl Ethyl Ketone	ND	U	10		ug/L			09/08/19 23:02	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			09/08/19 23:02	1
Acetone	ND	U	10		ug/L			09/08/19 23:02	1
Benzene	ND	U	1.0		ug/L			09/08/19 23:02	1
Methylene Chloride	ND	U	1.0		ug/L			09/08/19 23:02	1
Toluene	ND	U	1.0		ug/L			09/08/19 23:02	1
Xylenes, Total	ND	U	2.0		ug/L			09/08/19 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*09/08/19 23:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/08/19 23:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/08/19 23:02*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/08/19 23:02*	*1*

Lab Sample ID: LCS 480-490788/5
Matrix: Water
Analysis Batch: 490788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	117		ug/L		93	65 - 127
Methyl Ethyl Ketone	125	116		ug/L		93	57 - 140
Methyl isobutyl ketone	125	112		ug/L		90	71 - 125
Acetone	125	109		ug/L		88	56 - 142
Benzene	25.0	25.4		ug/L		101	71 - 124
Methylene Chloride	25.0	25.1		ug/L		100	75 - 124
Toluene	25.0	23.7		ug/L		95	80 - 122
Xylenes, Total	50.0	48.1		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-489695/1-A
Matrix: Water
Analysis Batch: 489931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489695

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
2-Methylphenol	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
4-Methylphenol	ND	U	10		ug/L		08/30/19 15:27	09/03/19 18:39	1
Alpha-Terpineol	ND	U	10		ug/L		08/30/19 15:27	09/03/19 18:39	1
Benzoic acid	ND	U	150		ug/L		08/30/19 15:27	09/03/19 18:39	1
Benzyl alcohol	ND	U	20		ug/L		08/30/19 15:27	09/03/19 18:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-489695/1-A
Matrix: Water
Analysis Batch: 489931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489695

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
Naphthalene	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
Phenanthrene	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
Phenol	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1
Pyrene	ND	U	5.0		ug/L		08/30/19 15:27	09/03/19 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*46 - 120*	*08/30/19 15:27*	*09/03/19 18:39*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*08/30/19 15:27*	*09/03/19 18:39*	*1*
p-Terphenyl-d14	*101*		*60 - 148*	*08/30/19 15:27*	*09/03/19 18:39*	*1*
Phenol-d5	*46*		*22 - 120*	*08/30/19 15:27*	*09/03/19 18:39*	*1*
2-Fluorophenol	*63*		*35 - 120*	*08/30/19 15:27*	*09/03/19 18:39*	*1*
2,4,6-Tribromophenol	*85*		*41 - 120*	*08/30/19 15:27*	*09/03/19 18:39*	*1*

Lab Sample ID: LCS 480-489695/2-A
Matrix: Water
Analysis Batch: 489931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			32.0	29.7		ug/L		93	59 - 120		
2-Methylphenol			32.0	27.9		ug/L		87	39 - 120		
4-Methylphenol			32.0	27.0		ug/L		84	29 - 131		
Benzoic acid			256	123	J	ug/L		48	10 - 120		
Benzyl alcohol			32.0	26.1		ug/L		82	41 - 126		
Fluoranthene			32.0	33.5		ug/L		105	69 - 126		
Naphthalene			32.0	28.4		ug/L		89	57 - 120		
Phenanthrene			32.0	32.3		ug/L		101	68 - 120		
Phenol			32.0	18.2		ug/L		57	17 - 120		
Pyrene			32.0	32.1		ug/L		100	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*86*		*46 - 120*
2-Fluorobiphenyl	*92*		*48 - 120*
p-Terphenyl-d14	*98*		*60 - 148*
Phenol-d5	*52*		*22 - 120*
2-Fluorophenol	*69*		*35 - 120*
2,4,6-Tribromophenol	*117*		*41 - 120*

Lab Sample ID: LCSD 480-489695/3-A
Matrix: Water
Analysis Batch: 489931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 489695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene			32.0	29.2		ug/L		91	59 - 120	2	21
2-Methylphenol			32.0	27.3		ug/L		85	39 - 120	2	27
4-Methylphenol			32.0	26.9		ug/L		84	29 - 131	1	24
Benzoic acid			256	129	J	ug/L		50	10 - 120	5	50
Benzyl alcohol			32.0	25.5		ug/L		80	41 - 126	2	34

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-489695/3-A
Matrix: Water
Analysis Batch: 489931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 489695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			32.0	31.9		ug/L		100	69 - 126	5	15
Naphthalene			32.0	28.5		ug/L		89	57 - 120	0	29
Phenanthrene			32.0	32.1		ug/L		100	68 - 120	0	15
Phenol			32.0	18.0		ug/L		56	17 - 120	1	34
Pyrene			32.0	31.0		ug/L		97	70 - 125	3	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*46 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
p-Terphenyl-d14	*95*		*60 - 148*
Phenol-d5	*52*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*117*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-489698/1-A
Matrix: Water
Analysis Batch: 489833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489698

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.050		ug/L		08/30/19 15:41	09/03/19 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*20 - 120*	*08/30/19 15:41*	*09/03/19 11:46*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*08/30/19 15:41*	*09/03/19 11:46*	*1*

Lab Sample ID: LCS 480-489698/2-A
Matrix: Water
Analysis Batch: 489833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489698

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Heptachlor			0.400	0.344		ug/L		86	58 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*20 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*

Lab Sample ID: LCSD 480-489698/3-A
Matrix: Water
Analysis Batch: 489833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 489698

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor			0.400	0.343		ug/L		86	58 - 120	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*20 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-400215/1-A
Matrix: Water
Analysis Batch: 400997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400215

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.50		ng/L		09/11/19 17:00	09/16/19 08:56	1

Lab Sample ID: LCS 240-400215/2-A
Matrix: Water
Analysis Batch: 400997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	3.89		ng/L		78	77 - 123		

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-489711/1-A
Matrix: Water
Analysis Batch: 490049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489711

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 20:59	1
Chromium	ND	U	0.010		mg/L		09/03/19 08:26	09/03/19 20:59	1
Cobalt	ND	U	0.010		mg/L		09/03/19 08:26	09/03/19 20:59	1
Copper	ND	U	0.025		mg/L		09/03/19 08:26	09/03/19 20:59	1
Lead	ND	U	0.0050		mg/L		09/03/19 08:26	09/03/19 20:59	1
Nickel	ND	U	0.040		mg/L		09/03/19 08:26	09/03/19 20:59	1
Silver	ND	U	0.015		mg/L		09/03/19 08:26	09/03/19 20:59	1
Thallium	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 20:59	1
Zinc	ND	U	0.020		mg/L		09/03/19 08:26	09/03/19 20:59	1

Lab Sample ID: MB 480-489711/1-A
Matrix: Water
Analysis Batch: 490301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489711

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 11:24	1
Cadmium	ND	U	0.0050		mg/L		09/03/19 08:26	09/04/19 11:24	1
Selenium	ND	U	0.010		mg/L		09/03/19 08:26	09/04/19 11:24	1

Lab Sample ID: LCS 480-489711/2-A
Matrix: Water
Analysis Batch: 490049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489711

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			0.200	0.201		mg/L		100	80 - 120		
Chromium			0.200	0.191		mg/L		95	80 - 120		
Cobalt			0.200	0.187		mg/L		94	80 - 120		
Copper			0.200	0.185		mg/L		92	80 - 120		
Lead			0.200	0.194		mg/L		97	80 - 120		
Nickel			0.200	0.204		mg/L		102	80 - 120		
Silver			0.0500	0.0481		mg/L		96	80 - 120		
Thallium			0.200	0.204		mg/L		102	80 - 120		
Zinc			0.200	0.206		mg/L		103	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-489711/2-A
Matrix: Water
Analysis Batch: 490301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.200		mg/L		100	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Selenium	0.200	0.188		mg/L		94	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-586331/1-A
Matrix: Water
Analysis Batch: 586608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586331

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25	mg/L		09/16/19 13:50	09/17/19 17:50	1

Lab Sample ID: LCS 680-586331/2-A
Matrix: Water
Analysis Batch: 586608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.46		mg/L		109	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-491788/1
Matrix: Water
Analysis Batch: 491788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-489600/1-A
Matrix: Water
Analysis Batch: 489656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489600

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND	U	5.1	mg/L		08/30/19 09:07	08/30/19 11:44	1

Lab Sample ID: LCS 480-489600/2-A
Matrix: Water
Analysis Batch: 489656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.1	37.1		mg/L		93	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-490853/1-A
Matrix: Water
Analysis Batch: 490880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L		09/09/19 07:00	09/09/19 09:12	1

Lab Sample ID: LCS 480-490853/2-A
Matrix: Water
Analysis Batch: 490880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	0.925		mg/L		93	90 - 110		

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-489546/3
Matrix: Water
Analysis Batch: 489546

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050		mg/L			08/30/19 05:51	1

Lab Sample ID: LCS 480-489546/4
Matrix: Water
Analysis Batch: 489546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite			1.50	1.55		mg/L		103	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-490512/28
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			09/05/19 20:25	1

Lab Sample ID: MB 480-490512/4
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			09/05/19 19:19	1

Lab Sample ID: LCS 480-490512/29
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.1		mg/L		104	90 - 110		

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-490512/5
Matrix: Water
Analysis Batch: 490512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.8		mg/L		95	90 - 110

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-490821/1-A
Matrix: Water
Analysis Batch: 490957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490821

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010	mg/L		09/08/19 15:09	09/09/19 12:52	1

Lab Sample ID: LCS 480-490821/2-A
Matrix: Water
Analysis Batch: 490957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.247		mg/L		99	90 - 110

Lab Sample ID: MB 480-492964/1-A
Matrix: Water
Analysis Batch: 493035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492964

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010	mg/L		09/19/19 13:15	09/19/19 16:05	1

Lab Sample ID: LCS 480-492964/2-A
Matrix: Water
Analysis Batch: 493035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.394		mg/L		99	90 - 110

Lab Sample ID: LCS 480-492964/3-A
Matrix: Water
Analysis Batch: 493035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.248		mg/L		99	90 - 110

Method: 9040C - pH

Lab Sample ID: LCS 480-491606/1
Matrix: Water
Analysis Batch: 491606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-492252/3
Matrix: Water
Analysis Batch: 492252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND	U	2.0		mg/L			09/15/19 11:45	1

Lab Sample ID: LCS 480-492252/4
Matrix: Water
Analysis Batch: 492252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness			214	204		mg/L		95	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-489846/1
Matrix: Water
Analysis Batch: 489846

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	10		mg/L			09/03/19 08:31	1

Lab Sample ID: LCS 480-489846/2
Matrix: Water
Analysis Batch: 489846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	451		mg/L		90	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-490068/1
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			09/04/19 09:17	1

Lab Sample ID: LCS 480-490068/2
Matrix: Water
Analysis Batch: 490068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			247	244		mg/L		99	88 - 110		

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 480-489769/3
Matrix: Water
Analysis Batch: 489769

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND	U	0.020		mg/L			08/31/19 12:45	1

Method: SM 4500 Cl G - Chlorine, Residual (Continued)

Lab Sample ID: LCS 480-489769/4
Matrix: Water
Analysis Batch: 489769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorine, Total Residual			0.900	0.880		mg/L		98	90 - 110		

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-490923/3
Matrix: Water
Analysis Batch: 490923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND	U	0.010		mg/L			09/09/19 11:40	1

Lab Sample ID: LCS 480-490923/4
Matrix: Water
Analysis Batch: 490923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus			0.200	0.193		mg/L		96	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

GC/MS VOA

Analysis Batch: 490788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	8260C	
480-158313-2	TB	Total/NA	WQ	8260C	
MB 480-490788/7	Method Blank	Total/NA	Water	8260C	
LCS 480-490788/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 489695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	3510C	
MB 480-489695/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-489695/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-489695/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 489931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	8270D	489695
MB 480-489695/1-A	Method Blank	Total/NA	Water	8270D	489695
LCS 480-489695/2-A	Lab Control Sample	Total/NA	Water	8270D	489695
LCSD 480-489695/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	489695

GC Semi VOA

Prep Batch: 489698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	3510C	
MB 480-489698/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-489698/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-489698/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 489833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	8081B	489698
MB 480-489698/1-A	Method Blank	Total/NA	Water	8081B	489698
LCS 480-489698/2-A	Lab Control Sample	Total/NA	Water	8081B	489698
LCSD 480-489698/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	489698

Metals

Prep Batch: 400215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	1631E	
MB 240-400215/1-A	Method Blank	Total/NA	Water	1631E	
LCS 240-400215/2-A	Lab Control Sample	Total/NA	Water	1631E	

Analysis Batch: 400997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-400215/1-A	Method Blank	Total/NA	Water	1631E	400215
LCS 240-400215/2-A	Lab Control Sample	Total/NA	Water	1631E	400215

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Metals

Analysis Batch: 401236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	1631E	400215

Prep Batch: 489711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	3005A	
MB 480-489711/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 490049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	6010C	489711
MB 480-489711/1-A	Method Blank	Total/NA	Water	6010C	489711
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	6010C	489711

Analysis Batch: 490301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	6010C	489711
MB 480-489711/1-A	Method Blank	Total/NA	Water	6010C	489711
LCS 480-489711/2-A	Lab Control Sample	Total/NA	Water	6010C	489711

Prep Batch: 586331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	3010A	
MB 680-586331/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-586331/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 586608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	6020A	586331
MB 680-586331/1-A	Method Blank	Total/NA	Water	6020A	586331
LCS 680-586331/2-A	Lab Control Sample	Total/NA	Water	6020A	586331

General Chemistry

Analysis Batch: 489546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	353.2	
MB 480-489546/3	Method Blank	Total/NA	Water	353.2	
LCS 480-489546/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 489550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	353.2	

Prep Batch: 489600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	1664B	
MB 480-489600/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-489600/2-A	Lab Control Sample	Total/NA	Water	1664B	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

General Chemistry

Analysis Batch: 489656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	1664B	489600
MB 480-489600/1-A	Method Blank	Total/NA	Water	1664B	489600
LCS 480-489600/2-A	Lab Control Sample	Total/NA	Water	1664B	489600

Analysis Batch: 489769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 4500 Cl G	
MB 480-489769/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 480-489769/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	

Analysis Batch: 489846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 2540C	
MB 480-489846/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-489846/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 490068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 2540D	
MB 480-490068/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-490068/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 490512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	410.4	
MB 480-490512/28	Method Blank	Total/NA	Water	410.4	
MB 480-490512/4	Method Blank	Total/NA	Water	410.4	
LCS 480-490512/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-490512/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 490821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	9012B	
MB 480-490821/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-490821/2-A	Lab Control Sample	Total/NA	Water	9012B	

Prep Batch: 490853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	Distill/Ammonia	
MB 480-490853/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-490853/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 490880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-490853/1-A	Method Blank	Total/NA	Water	350.1	490853
LCS 480-490853/2-A	Lab Control Sample	Total/NA	Water	350.1	490853

Analysis Batch: 490886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	350.1	490853

General Chemistry

Analysis Batch: 490923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 4500 P E	
MB 480-490923/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-490923/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 490957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-490821/1-A	Method Blank	Total/NA	Water	9012B	490821
LCS 480-490821/2-A	Lab Control Sample	Total/NA	Water	9012B	490821

Analysis Batch: 491023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	9012B	490821

Analysis Batch: 491273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 5210B	

Analysis Batch: 491606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	9040C	
LCS 480-491606/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 491788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	1010A	
LCS 480-491788/1	Lab Control Sample	Total/NA	Water	1010A	

Analysis Batch: 492252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 2340C	
MB 480-492252/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-492252/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 492765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 1030E	

Prep Batch: 492964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	9012B	
MB 480-492964/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-492964/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-492964/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 493035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	9012B	492964
MB 480-492964/1-A	Method Blank	Total/NA	Water	9012B	492964
LCS 480-492964/2-A	Lab Control Sample	Total/NA	Water	9012B	492964
LCS 480-492964/3-A	Lab Control Sample	Total/NA	Water	9012B	492964

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Biology

Analysis Batch: 491275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	SM 9223B	

Field Service / Mobile Lab

Analysis Batch: 489429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158313-1	TANK	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Client Sample ID: TANK

Date Collected: 08/28/19 13:15
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-1

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	490788	09/09/19 01:26	KMN	TAL BUF
Total/NA	Prep	3510C			489695	08/30/19 15:27	AAP	TAL BUF
Total/NA	Analysis	8270D		10	489931	09/03/19 20:35	PJQ	TAL BUF
Total/NA	Prep	3510C			489698	08/30/19 15:41	AAP	TAL BUF
Total/NA	Analysis	8081B		1	489833	09/03/19 12:45	JLS	TAL BUF
Total/NA	Prep	1631E			400215	09/11/19 17:00	AJC	TAL CAN
Total/NA	Analysis	1631E		2	401236	09/17/19 08:30	AJC	TAL CAN
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490049	09/03/19 22:42	LMH	TAL BUF
Total/NA	Prep	3005A			489711	09/03/19 08:26	NSW	TAL BUF
Total/NA	Analysis	6010C		1	490301	09/04/19 12:49	LMH	TAL BUF
Total/NA	Prep	3010A			586331	09/16/19 13:50	AJR	TAL SAV
Total/NA	Analysis	6020A		1	586608	09/17/19 18:51	BWR	TAL SAV
Total/NA	Analysis	1010A		1	491788	09/12/19 15:58	CRK	TAL BUF
Total/NA	Prep	1664B			489600	08/30/19 09:07	CRK	TAL BUF
Total/NA	Analysis	1664B		1	489656	08/30/19 11:44	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			490853	09/09/19 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	490886	09/09/19 09:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	489550	08/30/19 05:56	BEF	TAL BUF
Total/NA	Analysis	353.2		1	489546	08/30/19 05:56	BEF	TAL BUF
Total/NA	Analysis	410.4		20	490512	09/05/19 19:41	CSS	TAL BUF
Total/NA	Prep	9012B			490821	09/08/19 15:09	AJL	TAL BUF
Total/NA	Analysis	9012B		1	491023	09/09/19 16:12	MDL	TAL BUF
Total/NA	Prep	9012B			492964	09/19/19 13:15	LAW	TAL BUF
Total/NA	Analysis	9012B		1	493035	09/19/19 16:33	CLT	TAL BUF
Total/NA	Analysis	9040C		1	491606	09/11/19 20:20	AEF	TAL BUF
Total/NA	Analysis	SM 1030E		1	492765	09/18/19 15:03	LMH	TAL BUF
Total/NA	Analysis	SM 2340C		1	492252	09/15/19 11:45	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	489846	09/03/19 08:31	ZFM	TAL BUF
Total/NA	Analysis	SM 2540D		1	490068	09/04/19 09:17	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl G		1	489769	08/31/19 12:45	AJL	TAL BUF
Total/NA	Analysis	SM 4500 P E		10	490923	09/09/19 11:40	RP	TAL BUF
Total/NA	Analysis	SM 5210B		1	491273	09/03/19 10:16	CTB	KAT
Total/NA	Analysis	SM 9223B		1	491275	08/29/19 17:55	CTB	KAT
Total/NA	Analysis	Field Sampling		1	489429	08/28/19 13:15	FLD	TAL BUF

Client Sample ID: TB

Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-2

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	490788	09/09/19 01:50	KMN	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-158313-1
Project/Site: Crossroads ME-SA Leachate Tank

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Leachate	Flashpoint
8270D	3510C	Leachate	Alpha-Terpineol
9040C		Leachate	pH
9040C		Leachate	Temperature
Field Sampling		Leachate	Field EH/ORP
Field Sampling		Leachate	Field pH
Field Sampling		Leachate	Oxygen, Dissolved
Field Sampling		Leachate	Specific Conductance
Field Sampling		Leachate	Temperature
Field Sampling		Leachate	Turbidity
SM 1030E		Leachate	Anion/Cation Balance
SM 1030E		Leachate	Calculated TDS
SM 1030E		Leachate	TDS Ratio
SM 1030E		Leachate	TDS to Conductivity Ratio
SM 4500 Cl G		Leachate	Chlorine, Total Residual

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
California	State Program	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Connecticut	State Program	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Georgia	State Program	N/A	02-23-20
Illinois	NELAP	200004	07-31-20
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-20
Iowa	State Program	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (UST)	State Program	58	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Kentucky (WW)	State Program	98016	12-31-19
Minnesota	NELAP	039-999-348	12-31-19 *
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Laboratory: Eurofins TestAmerica, Canton (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Ohio VAP	State Program	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-20
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-19-11	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	Federal	P330-16-00404	12-28-19
USDA	US Federal Programs	P330-16-00404	12-28-19
Virginia	NELAP	460175	09-14-20
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-20
Washington	State Program	C971	01-12-20 *
West Virginia DEP	State	210	12-31-19
West Virginia DEP	State Program	210	12-31-19

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 Cl G	Chlorine, Residual	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 9223B	Coliforms, Total, and E.Coli	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158313-1	TANK	Leachate	08/28/19 13:15	08/29/19 09:15	
480-158313-2	TB	WQ	08/28/19 00:00	08/29/19 09:15	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-158313-1
Project/Site: Crossroads ME-SA Leachate Tank

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Leachate	Total/NA	mg/L	0.010	0.015
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Selenium	Leachate	Total/NA	mg/L	0.010	0.025
6020A	Aluminum	Leachate	Total/NA	mg/L	0.050	0.1

September 6, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: SM9028
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): August 28, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

09/06/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: SM9028-1
Report Date: 06-SEP-19
Client PO: 3048382
Project: Waste Management - Crossroads
SDG: SM9028

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	28-AUG-19 13:15:00	28-AUG-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	91. mg/L	60.	7.0	SM 5210B	WG261085	03-SEP-19 10:16:00	SM 5210B	29-AUG-19 940	BR		

Katahdin Analytical Services SM9028 page 0000003 of 0000009

30 Technology Way
P.O. Box 540, Scarborough, ME 04070
TEL:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG261085	SM 5210B	03-SEP-19	29-AUG-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG261085-2	LCS	WG261085	03-SEP-19	29-AUG-19	mg/L	198	200	103	85-115	

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: SM9028
Waste Management -
Project: Crossroads
Client PO: 3048382
Report Date: 04-SEP-19

Lab ID: SM9028-1 **Client ID:** TANK **Collected Date:** 28-AUG-19 13:15:00 **Received Date:** 28-AUG-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	52 /100mL	28-AUG-19	29-AUG-19 17:55:00	HM	KM	Colilert/Quantitray

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: PEST AMERICA	KAS PM: GN	Sampled By: NA
Project: CROSSROADS TANK	KIMS Entry By: JCB	Delivered By: NA
KAS Work Order#: SM 9028	KIMS Review By: [signature]	Received By: JCB
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8/28/19 1815

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				✓	
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?					
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 3.1 — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):	Address:		
Sampler (Print/Sign): Nick Adams /			Copies To:

LAB USE ONLY Work Order #: **SM 9028**
Katahdin Project Number
Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives										
					Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
					BOD	E-Coliform									
	TANK	8/28/2019 1315	AQ	2	1	1									

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Nick Adams	8/28/19 1815				
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 29, 2019
02:35 PM

Login Number: SM9028

Account: STL001
Severn Trent Laboratories

Project:

NoWeb

Quote/Incoming:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	3.1
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	JCB
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SM9028-1	TANK	28-AUG-19 13:15	28-AUG-19			09-SEP-19	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	EM_ECOLI_COLQUANT	29-AUG-19			
Aqueous	S	SM5210B-TBOD	30-AUG-19	250mL Plastic		

Total Samples: *1* ***Total Analyses:*** *2*

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133039-23834.1
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Waste Management				Job #:

Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:
City: Norridgewock	TAT Requested (days):
State, Zip: ME, 04957	
Phone:	PO #: Purchase Order Requested
Email: smckenne@wm.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Leachate Tank (8,11)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

480-158313 Chain of Custody

I - Ice
J - DI Water
K - EDTA
L - EDA
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A - Total Metals ICPMS (Al)	1631E - Mercury	8081B - Heptachlor	8270D - Semivolatiles	350.1, 410.4, 4500_P_E	4500_CL_G - Chlorine, Total Residual	6010C - Total Metals ICP	2340C - Hardness	Cation_Anion - Cation Anion Balance	8260C - Volatiles	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved So	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	N	N	S	N	D	D	N	A	N	N	N		
TANK	8/28/19	1315	G	Water	N	N	1	2	2	2	1	1	1	1	X	3	0	1	1	16	
TB				Water												3				3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/28/19 1800	Company RAS	Received by:	Date/Time: 8/29/19 0915	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.7

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133039-23834.2
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: Waste Management				Job #:

Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:
City: Norridgewock	TAT Requested (days):
State, Zip: ME, 04957	
Phone:	PO #: Purchase Order Requested
Email: smckenne@wm.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Leachate Tank (8,11	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	FieldSampling - Field Parameters	9012B - Cyanide, Total	9223B - Escherichia coli	353.2; 353.2_Nitrite, Nitrate_Calc	9040C - pH	1010A - Flashpoint	1664B - Oil and Grease							Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	B	R	N	N	N	S								
TANK	8/28/19	1315	G	Water	N	N	X	1	0	2	1	1	2							7	E-COLI and BOD
TB				Water																	were subbed to
																					Katahdin.

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/28/19 1800	Company: RAS	Received by:	Date/Time: 8/29/19 0915	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

2.0/2.1

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-51338.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-158313-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 9/19/2019			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK (480-158313-1)	8/28/19	13:15 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/29/19 1700	TA	[signature]	83019 930	TA
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client Buffalo Site Name _____ Cooler unpacked by:

Cooler Received on 8-30-19 Opened on 8-30-19

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **+0.1** °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.1 °C
   IR GUN #36 (CF **+0.6**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC987808**
13. Were VOAs on the COC?	Yes	No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
16. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-51348.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-158313-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 9/17/2019	Analysis Requested		Preservation Codes:
City: Savannah	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Crossroads ME	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A Total Metals ICPMS (Al)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK (480-158313-1)	8/28/19	13:15 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Chukwu Cikolb	08/29/19 1700	TA		8/30/19 915	TA BA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9/2.2

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: TANK (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: /

Sampling Device: F

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/28/19	7.81	1534	27.7	160	4.5	423	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL Odor: STRONG Color: BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/28/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158313-1

Login Number: 158313
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158313-1

Login Number: 158313
List Number: 2
Creator: Weston, Pamela

List Source: Eurofins TestAmerica, Savannah
List Creation: 08/30/19 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-158430-1
Client Project/Site: Crossroads ME-Wick Drain
Sampling Event: Wick Drain's - (4,8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
9/20/2019 11:30:19 AM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Job ID: 480-158430-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158430-1

Comments
No additional comments.

Receipt
The sample was received on 8/31/2019 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 8BCWD (480-158430-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The results reported for the following samples do not concur with results previously reported for this site: 8BCWD (480-158430-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The method blank for preparation batch 480-490558 and 480-491115 and analytical batch 480-491313 contained Dissolved Sodium above the reporting limit (RL). Associated sample 8BCWD (480-158430-1) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010C: The Dissolved Arsenic and Iron results reported for the following sample do not concur with results previously reported for this site: 8BCWD (480-158430-1). Reanalysis was performed, and the results confirmed.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL) associated with batch 480-491633 contained Total Arsenic above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 8BCWD (480-158430-1) and (MB 480-490992/1-A) was not performed.

Method(s) 6010C: The method blank for preparation batch 480-490992 and analytical batch 480-491633 contained Total Iron above the reporting limit (RL). Associated sample(s) 8BCWD (480-158430-1) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 7470A: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: 8BCWD (480-158430-1). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. preserved 9/12/19 at 1740 2nd check 9/16/19 at 1050 pH < 2 BB

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 353.2: The results reported for the following sample do not concur with results previously reported for this site: 8BCWD (480-158430-1). Reanalysis was performed, and the result(s) confirmed.

Method(s) Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 8BCWD (480-158430-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Client Sample ID: 8BCWD

Lab Sample ID: 480-158430-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloroethane	7.9		4.0		ug/L	4		8260C	Total/NA
Methylene Chloride	6.5		4.0		ug/L	4		8260C	Total/NA
Arsenic	0.65		0.0090		mg/L	1		6010C	Total/NA
Barium	0.16		0.0050		mg/L	1		6010C	Total/NA
Calcium	58		0.15		mg/L	1		6010C	Total/NA
Iron	78		0.030		mg/L	1		6010C	Total/NA
Magnesium	33		0.24		mg/L	1		6010C	Total/NA
Manganese	1.6		0.010		mg/L	1		6010C	Total/NA
Potassium	17		1.0		mg/L	1		6010C	Total/NA
Sodium	72		0.40		mg/L	1		6010C	Total/NA
Arsenic	0.010		0.010		mg/L	1		6010C	Dissolved
Barium	0.068		0.0050		mg/L	1		6010C	Dissolved
Calcium	55		0.50		mg/L	1		6010C	Dissolved
Iron	2.0		0.030		mg/L	1		6010C	Dissolved
Potassium	16		0.20		mg/L	1		6010C	Dissolved
Magnesium	32		0.20		mg/L	1		6010C	Dissolved
Manganese	1.5		0.010		mg/L	1		6010C	Dissolved
Sodium	72	BL	0.40		mg/L	1		6010C	Dissolved
Copper	0.0053		0.0020		mg/L	1		6020A	Total/NA
Specific Conductance (25C)	1000		1.0		umhos/cm	1		120.1	Total/NA
Alkalinity, Total	420		50		mg/L	5		310.2	Total/NA
Ammonia as N	12		2.0		mg/L as N	2		350.1	Total/NA
Nitrate	0.061		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	120		20		mg/L	2		410.4	Total/NA
Chloride	72		1.0		mg/L	2		9251	Total/NA
Anion/Cation Balance	13				%	1		SM 1030E	Total/NA
Calculated TDS	580				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.87				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	510		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	12		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	25.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.19				SU	1		Field Sampling	Total/NA
Specific Conductance	1060				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-73.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Client Sample ID: 8BCWD

Date Collected: 08/30/19 14:15
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158430-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	4.0		ug/L			09/11/19 11:30	4
1,1,2,2-Tetrachloroethane	ND	U	4.0		ug/L			09/11/19 11:30	4
1,1,2-Trichloroethane	ND	U	4.0		ug/L			09/11/19 11:30	4
1,1-Dichloroethane	ND	U	4.0		ug/L			09/11/19 11:30	4
1,1-Dichloroethene	ND	U	4.0		ug/L			09/11/19 11:30	4
1,2-Dichloroethane	ND	U	4.0		ug/L			09/11/19 11:30	4
1,2-Dichloropropane	ND	U	4.0		ug/L			09/11/19 11:30	4
2-Butanone	ND	U	40		ug/L			09/11/19 11:30	4
2-Hexanone	ND	U	20		ug/L			09/11/19 11:30	4
4-Methyl-2-pentanone	ND	U	20		ug/L			09/11/19 11:30	4
Acetone	ND	U	40		ug/L			09/11/19 11:30	4
Benzene	ND	U	4.0		ug/L			09/11/19 11:30	4
Bromodichloromethane	ND	U	4.0		ug/L			09/11/19 11:30	4
Bromoform	ND	U	4.0		ug/L			09/11/19 11:30	4
Bromomethane	ND	U	4.0		ug/L			09/11/19 11:30	4
Carbon disulfide	ND	U	4.0		ug/L			09/11/19 11:30	4
Carbon tetrachloride	ND	U	4.0		ug/L			09/11/19 11:30	4
Chlorobenzene	ND	U	4.0		ug/L			09/11/19 11:30	4
Chloroethane	**7.9**		4.0		ug/L			09/11/19 11:30	4
Chloroform	ND	U	4.0		ug/L			09/11/19 11:30	4
Chloromethane	ND	U	4.0		ug/L			09/11/19 11:30	4
cis-1,2-Dichloroethene	ND	U	4.0		ug/L			09/11/19 11:30	4
cis-1,3-Dichloropropene	ND	U	4.0		ug/L			09/11/19 11:30	4
Dibromochloromethane	ND	U	4.0		ug/L			09/11/19 11:30	4
Ethylbenzene	ND	U	4.0		ug/L			09/11/19 11:30	4
Methylene Chloride	**6.5**		4.0		ug/L			09/11/19 11:30	4
Styrene	ND	U	4.0		ug/L			09/11/19 11:30	4
Tetrachloroethene	ND	U	4.0		ug/L			09/11/19 11:30	4
Toluene	ND	U	4.0		ug/L			09/11/19 11:30	4
trans-1,2-Dichloroethene	ND	U	4.0		ug/L			09/11/19 11:30	4
trans-1,3-Dichloropropene	ND	U	4.0		ug/L			09/11/19 11:30	4
Trichloroethene	ND	U	4.0		ug/L			09/11/19 11:30	4
Vinyl acetate	ND	U	20		ug/L			09/11/19 11:30	4
Vinyl chloride	ND	U	4.0		ug/L			09/11/19 11:30	4
Xylenes, Total	ND	U	8.0		ug/L			09/11/19 11:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/11/19 11:30*	*4*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/11/19 11:30*	*4*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/11/19 11:30*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/11/19 11:30*	*4*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.65**		0.0090		mg/L		09/10/19 06:17	09/11/19 21:16	1
Barium	**0.16**		0.0050		mg/L		09/10/19 06:17	09/11/19 21:16	1
Calcium	**58**		0.15		mg/L		09/10/19 06:17	09/11/19 21:16	1
Chromium	ND	U	0.010		mg/L		09/10/19 06:17	09/11/19 21:16	1
Iron	**78**		0.030		mg/L		09/10/19 06:17	09/11/19 21:16	1
Magnesium	**33**		0.24		mg/L		09/10/19 06:17	09/11/19 21:16	1

Client Sample ID: 8BCWD

Date Collected: 08/30/19 14:15
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158430-1

Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.6**		0.010		mg/L		09/10/19 06:17	09/11/19 21:16	1
Nickel	ND	U	0.040		mg/L		09/10/19 06:17	09/11/19 21:16	1
Potassium	**17**		1.0		mg/L		09/10/19 06:17	09/11/19 21:16	1
Sodium	**72**		0.40		mg/L		09/10/19 06:17	09/11/19 21:16	1
Vanadium	ND	U	0.025		mg/L		09/10/19 06:17	09/11/19 21:16	1
Zinc	ND	U	0.020		mg/L		09/10/19 06:17	09/11/19 21:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**		0.010		mg/L		09/10/19 10:30	09/11/19 02:23	1
Barium	**0.068**		0.0050		mg/L		09/10/19 10:30	09/11/19 02:23	1
Calcium	**55**		0.50		mg/L		09/10/19 10:30	09/11/19 02:23	1
Chromium	ND	U	0.010		mg/L		09/10/19 10:30	09/11/19 02:23	1
Iron	**2.0**		0.030		mg/L		09/10/19 10:30	09/11/19 02:23	1
Potassium	**16**		0.20		mg/L		09/10/19 10:30	09/11/19 02:23	1
Magnesium	**32**		0.20		mg/L		09/10/19 10:30	09/11/19 02:23	1
Manganese	**1.5**		0.010		mg/L		09/10/19 10:30	09/11/19 02:23	1
Sodium	**72**	**BL**	0.40		mg/L		09/10/19 10:30	09/11/19 02:23	1
Nickel	ND	U	0.040		mg/L		09/10/19 10:30	09/11/19 02:23	1
Zinc	ND	U	0.020		mg/L		09/10/19 10:30	09/11/19 02:23	1
Vanadium	ND	U	0.040		mg/L		09/10/19 10:30	09/11/19 02:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		09/10/19 06:10	09/10/19 14:54	1
Copper	**0.0053**		0.0020		mg/L		09/12/19 07:17	09/12/19 15:24	1
Silver	ND	U	0.00020		mg/L		09/10/19 06:10	09/10/19 14:54	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	U	0.00020		mg/L		09/12/19 07:17	09/12/19 13:53	1
Cadmium	ND	U	0.00050		mg/L		09/12/19 07:17	09/12/19 13:53	1
Copper	ND	U	0.0020		mg/L		09/12/19 07:17	09/12/19 13:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		09/16/19 12:05	09/16/19 14:54	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**13**				%			09/19/19 21:54	1
Calculated TDS	**580**				mg/L			09/19/19 21:54	1
TDS Ratio	**0.87**				NONE			09/19/19 21:54	1
TDS to Conductivity Ratio	**0.48**				NONE			09/19/19 21:54	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**420**		50		mg/L			09/11/19 20:45	5
Ammonia as N	**12**		2.0		mg/L as N		09/10/19 09:00	09/10/19 12:38	2
Nitrate	**0.061**		0.050		mg/L as N			09/04/19 16:02	1
Chemical Oxygen Demand	**120**		20		mg/L			09/17/19 14:30	2
Sulfate	ND	U	5.0		mg/L			09/04/19 19:32	1

Client Sample ID: 8BCWD

Date Collected: 08/30/19 14:15
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158430-1

Matrix: Ground Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72		1.0		mg/L			09/09/19 16:35	2
Total Dissolved Solids	510		5.0		mg/L			09/05/19 10:32	1
Total Organic Carbon	12		1.0		mg/L			09/06/19 06:36	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	1000		1.0		umhos/cm			09/04/19 19:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.0				NTU			08/30/19 14:15	1
Temperature	25.4				Degrees C			08/30/19 14:15	1
Field pH	6.19				SU			08/30/19 14:15	1
Specific Conductance	1060				umhos/cm			08/30/19 14:15	1
Field EH/ORP	-73.4				millivolts			08/30/19 14:15	1
Oxygen, Dissolved	0.9				mg/L			08/30/19 14:15	1

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-158430-1	8BCWD	103	102	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-491340/5	Lab Control Sample	98	102	105	98
MB 480-491340/8	Method Blank	103	106	105	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-491340/8
Matrix: Water
Analysis Batch: 491340

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
1,1-Dichloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
1,1-Dichloroethene	ND	U	1.0		ug/L			09/11/19 10:10	1
1,2-Dichloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
1,2-Dichloropropane	ND	U	1.0		ug/L			09/11/19 10:10	1
2-Butanone	ND	U	10		ug/L			09/11/19 10:10	1
2-Hexanone	ND	U	5.0		ug/L			09/11/19 10:10	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			09/11/19 10:10	1
Acetone	ND	U	10		ug/L			09/11/19 10:10	1
Benzene	ND	U	1.0		ug/L			09/11/19 10:10	1
Bromodichloromethane	ND	U	1.0		ug/L			09/11/19 10:10	1
Bromoform	ND	U	1.0		ug/L			09/11/19 10:10	1
Bromomethane	ND	U	1.0		ug/L			09/11/19 10:10	1
Carbon disulfide	ND	U	1.0		ug/L			09/11/19 10:10	1
Carbon tetrachloride	ND	U	1.0		ug/L			09/11/19 10:10	1
Chlorobenzene	ND	U	1.0		ug/L			09/11/19 10:10	1
Chloroethane	ND	U	1.0		ug/L			09/11/19 10:10	1
Chloroform	ND	U	1.0		ug/L			09/11/19 10:10	1
Chloromethane	ND	U	1.0		ug/L			09/11/19 10:10	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			09/11/19 10:10	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			09/11/19 10:10	1
Dibromochloromethane	ND	U	1.0		ug/L			09/11/19 10:10	1
Ethylbenzene	ND	U	1.0		ug/L			09/11/19 10:10	1
Methylene Chloride	ND	U	1.0		ug/L			09/11/19 10:10	1
Styrene	ND	U	1.0		ug/L			09/11/19 10:10	1
Tetrachloroethene	ND	U	1.0		ug/L			09/11/19 10:10	1
Toluene	ND	U	1.0		ug/L			09/11/19 10:10	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			09/11/19 10:10	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			09/11/19 10:10	1
Trichloroethene	ND	U	1.0		ug/L			09/11/19 10:10	1
Vinyl acetate	ND	U	5.0		ug/L			09/11/19 10:10	1
Vinyl chloride	ND	U	1.0		ug/L			09/11/19 10:10	1
Xylenes, Total	ND	U	2.0		ug/L			09/11/19 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/11/19 10:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*09/11/19 10:10*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/11/19 10:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/11/19 10:10*	*1*

Lab Sample ID: LCS 480-491340/5
Matrix: Water
Analysis Batch: 491340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	24.3		ug/L		97	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-491340/5
Matrix: Water
Analysis Batch: 491340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	76 - 120
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	22.4		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	25.0		ug/L		100	66 - 127
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
2-Butanone	125	108		ug/L		87	57 - 140
2-Hexanone	125	108		ug/L		87	65 - 127
4-Methyl-2-pentanone	125	102		ug/L		81	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	23.2		ug/L		93	71 - 124
Bromodichloromethane	25.0	22.4		ug/L		90	80 - 122
Bromoform	25.0	23.5		ug/L		94	61 - 132
Bromomethane	25.0	28.0		ug/L		112	55 - 144
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	23.6		ug/L		94	72 - 134
Chlorobenzene	25.0	22.6		ug/L		90	80 - 120
Chloroethane	25.0	30.2		ug/L		121	69 - 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	22.4		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	74 - 124
Dibromochloromethane	25.0	23.4		ug/L		94	75 - 125
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Methylene Chloride	25.0	23.2		ug/L		93	75 - 124
Styrene	25.0	23.2		ug/L		93	80 - 120
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	22.6		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	22.5		ug/L		90	80 - 120
Trichloroethene	25.0	24.0		ug/L		96	74 - 123
Vinyl acetate	50.0	45.9		ug/L		92	50 - 144
Vinyl chloride	25.0	25.2		ug/L		101	65 - 133
Xylenes, Total	50.0	46.6		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-490992/1-A
Matrix: Water
Analysis Batch: 491633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490992

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		09/10/19 06:17	09/11/19 21:08	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-490992/1-A
Matrix: Water
Analysis Batch: 491633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490992

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		09/10/19 06:17	09/11/19 21:08	1
Calcium	ND	U	0.15		mg/L		09/10/19 06:17	09/11/19 21:08	1
Chromium	ND	U	0.010		mg/L		09/10/19 06:17	09/11/19 21:08	1
Iron	0.0844		0.030		mg/L		09/10/19 06:17	09/11/19 21:08	1
Magnesium	ND	U	0.24		mg/L		09/10/19 06:17	09/11/19 21:08	1
Manganese	ND	U	0.010		mg/L		09/10/19 06:17	09/11/19 21:08	1
Potassium	ND	U	1.0		mg/L		09/10/19 06:17	09/11/19 21:08	1
Nickel	ND	U	0.040		mg/L		09/10/19 06:17	09/11/19 21:08	1
Sodium	ND	U	0.40		mg/L		09/10/19 06:17	09/11/19 21:08	1
Vanadium	ND	U	0.025		mg/L		09/10/19 06:17	09/11/19 21:08	1
Zinc	ND	U	0.020		mg/L		09/10/19 06:17	09/11/19 21:08	1

Lab Sample ID: LCS 480-490992/2-A
Matrix: Water
Analysis Batch: 491633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			0.200	0.204		mg/L		102	80 - 120		
Calcium			10.0	9.42		mg/L		94	80 - 120		
Chromium			0.200	0.193		mg/L		97	80 - 120		
Iron			10.0	10.1		mg/L		101	80 - 120		
Magnesium			10.0	9.81		mg/L		98	80 - 120		
Manganese			0.200	0.205		mg/L		102	80 - 120		
Potassium			10.0	9.76		mg/L		98	80 - 120		
Nickel			0.200	0.201		mg/L		101	80 - 120		
Sodium			10.0	9.60		mg/L		96	80 - 120		
Vanadium			0.200	0.206		mg/L		103	80 - 120		
Zinc			0.200	0.227		mg/L		113	80 - 120		

Lab Sample ID: LCS 480-490992/2-A
Matrix: Water
Analysis Batch: 492203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.201		mg/L		100	80 - 120		

Lab Sample ID: MB 480-490558/1-C
Matrix: Water
Analysis Batch: 491313

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 491115

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.010		mg/L		09/10/19 10:30	09/11/19 02:00	1
Barium	ND	U	0.0050		mg/L		09/10/19 10:30	09/11/19 02:00	1
Calcium	ND	U	0.50		mg/L		09/10/19 10:30	09/11/19 02:00	1
Chromium	ND	U	0.010		mg/L		09/10/19 10:30	09/11/19 02:00	1
Iron	ND	U	0.030		mg/L		09/10/19 10:30	09/11/19 02:00	1
Magnesium	ND	U	0.20		mg/L		09/10/19 10:30	09/11/19 02:00	1
Manganese	ND	U	0.010		mg/L		09/10/19 10:30	09/11/19 02:00	1
Potassium	ND	U	0.20		mg/L		09/10/19 10:30	09/11/19 02:00	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-490558/1-C
Matrix: Water
Analysis Batch: 491313

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 491115

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND	U	0.040		mg/L		09/10/19 10:30	09/11/19 02:00	1
Sodium	0.425		0.40		mg/L		09/10/19 10:30	09/11/19 02:00	1
Vanadium	ND	U	0.040		mg/L		09/10/19 10:30	09/11/19 02:00	1
Zinc	ND	U	0.020		mg/L		09/10/19 10:30	09/11/19 02:00	1

Lab Sample ID: LCS 480-490558/2-C
Matrix: Water
Analysis Batch: 491313

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 491115

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.212		mg/L		106	80 - 120		
Barium			0.200	0.205		mg/L		103	80 - 120		
Calcium			10.0	9.41		mg/L		94	80 - 120		
Chromium			0.200	0.194		mg/L		97	80 - 120		
Iron			10.0	9.81		mg/L		98	80 - 120		
Magnesium			10.0	9.80		mg/L		98	80 - 120		
Manganese			0.200	0.200		mg/L		100	80 - 120		
Potassium			10.0	9.43		mg/L		94	80 - 120		
Nickel			0.200	0.198		mg/L		99	80 - 120		
Sodium			10.0	9.49		mg/L		95	80 - 120		
Vanadium			0.200	0.200		mg/L		100	80 - 120		
Zinc			0.200	0.199		mg/L		99	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-490990/1-A
Matrix: Water
Analysis Batch: 491368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490990

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		09/10/19 06:10	09/10/19 14:49	1
Silver	ND	U	0.00020		mg/L		09/10/19 06:10	09/10/19 14:49	1

Lab Sample ID: LCS 480-490990/2-A
Matrix: Water
Analysis Batch: 491368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490990

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			0.0200	0.0186		mg/L		93	80 - 120		
Silver			0.0200	0.0189		mg/L		94	80 - 120		

Lab Sample ID: MB 480-491594/1-A
Matrix: Water
Analysis Batch: 492219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491594

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.0020		mg/L		09/12/19 07:17	09/12/19 14:30	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 480-491594/2-A
Matrix: Water
Analysis Batch: 492219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0200	0.0210		mg/L		105	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-490558/1-D
Matrix: Water
Analysis Batch: 491760

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 491489

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	U	0.00020	mg/L		09/12/19 07:17	09/12/19 13:48	1
Cadmium	ND	U	0.00050	mg/L		09/12/19 07:17	09/12/19 13:48	1
Copper	ND	U	0.0020	mg/L		09/12/19 07:17	09/12/19 13:48	1

Lab Sample ID: LCS 480-490558/2-D
Matrix: Water
Analysis Batch: 491760

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 491489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0200	0.0164		mg/L		82	80 - 120
Cadmium	0.0200	0.0185		mg/L		93	80 - 120
Copper	0.0200	0.0204		mg/L		102	80 - 120

Lab Sample ID: 480-158430-1 MS
Matrix: Ground Water
Analysis Batch: 491760

Client Sample ID: 8BCWD
Prep Type: Dissolved
Prep Batch: 491489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND	U	0.0200	0.0154		mg/L		77	75 - 125
Cadmium	ND	U	0.0200	0.0183		mg/L		91	75 - 125
Copper	ND	U	0.0200	0.0200		mg/L		99	75 - 125

Lab Sample ID: 480-158430-1 MSD
Matrix: Ground Water
Analysis Batch: 491760

Client Sample ID: 8BCWD
Prep Type: Dissolved
Prep Batch: 491489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND	U	0.0200	0.0154		mg/L		77	75 - 125	0	20
Cadmium	ND	U	0.0200	0.0183		mg/L		91	75 - 125	0	20
Copper	ND	U	0.0200	0.0197		mg/L		97	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-492282/1-A
Matrix: Water
Analysis Batch: 492364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492282

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		09/16/19 12:05	09/16/19 14:46	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-492282/2-A
Matrix: Water
Analysis Batch: 492364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00683		mg/L		102	80 - 120

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: LCS 480-490218/67
Matrix: Water
Analysis Batch: 490218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance (25C)	998	994		umhos/cm		100	90 - 110

Lab Sample ID: 480-158430-1 DU
Matrix: Ground Water
Analysis Batch: 490218

Client Sample ID: 8BCWD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance (25C)	1000		1000		umhos/cm		0	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-491609/108
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			09/11/19 20:43	1

Lab Sample ID: MB 480-491609/37
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			09/11/19 19:18	1

Lab Sample ID: MB 480-491609/56
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			09/11/19 19:30	1

Lab Sample ID: LCS 480-491609/109
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.0		mg/L		98	90 - 110

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-491609/38
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.5		mg/L		107	90 - 110

Lab Sample ID: LCS 480-491609/57
Matrix: Water
Analysis Batch: 491609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.7		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-491056/1-A
Matrix: Water
Analysis Batch: 491204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491056

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L as N		09/10/19 09:00	09/10/19 12:16	1

Lab Sample ID: LCS 480-491056/2-A
Matrix: Water
Analysis Batch: 491204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.00		mg/L as N		100	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-492558/27
Matrix: Water
Analysis Batch: 492558

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/17/19 14:30	1

Lab Sample ID: MB 480-492558/51
Matrix: Water
Analysis Batch: 492558

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			09/17/19 14:30	1

Lab Sample ID: LCS 480-492558/28
Matrix: Water
Analysis Batch: 492558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.3		mg/L		93	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-492558/52
Matrix: Water
Analysis Batch: 492558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.8		mg/L		103	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-490219/43
Matrix: Water
Analysis Batch: 490219

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			09/04/19 19:09	1

Lab Sample ID: LCS 480-490219/42
Matrix: Water
Analysis Batch: 490219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.4		mg/L		98	90 - 110

Method: 9251 - Chloride

Lab Sample ID: MB 480-491045/24
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			09/09/19 16:28	1

Lab Sample ID: MB 480-491045/32
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			09/09/19 16:33	1

Lab Sample ID: LCS 480-491045/25
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110

Lab Sample ID: LCS 480-491045/33
Matrix: Water
Analysis Batch: 491045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.2		mg/L		105	90 - 110

QC Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-490322/1
Matrix: Water
Analysis Batch: 490322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			09/05/19 10:32	1

Lab Sample ID: LCS 480-490322/2
Matrix: Water
Analysis Batch: 490322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	461		mg/L		92	85 - 115		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-490772/27
Matrix: Water
Analysis Batch: 490772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			09/06/19 04:20	1

Lab Sample ID: LCS 480-490772/28
Matrix: Water
Analysis Batch: 490772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.3		mg/L		100	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

GC/MS VOA

Analysis Batch: 491340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	8260C	
MB 480-491340/8	Method Blank	Total/NA	Water	8260C	
LCS 480-491340/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Filtration Batch: 490558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Dissolved	Ground Water	FILTRATION	
MB 480-490558/1-C	Method Blank	Dissolved	Water	FILTRATION	
MB 480-490558/1-D	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-490558/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-490558/2-D	Lab Control Sample	Dissolved	Water	FILTRATION	
480-158430-1 MS	8BCWD	Dissolved	Ground Water	FILTRATION	
480-158430-1 MSD	8BCWD	Dissolved	Ground Water	FILTRATION	

Prep Batch: 490990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	3020A	
MB 480-490990/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-490990/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 490992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	3005A	
MB 480-490992/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-490992/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 491115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Dissolved	Ground Water	3005A	490558
MB 480-490558/1-C	Method Blank	Dissolved	Water	3005A	490558
LCS 480-490558/2-C	Lab Control Sample	Dissolved	Water	3005A	490558

Analysis Batch: 491313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Dissolved	Ground Water	6010C	491115
MB 480-490558/1-C	Method Blank	Dissolved	Water	6010C	491115
LCS 480-490558/2-C	Lab Control Sample	Dissolved	Water	6010C	491115

Analysis Batch: 491368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	6020A	490990
MB 480-490990/1-A	Method Blank	Total/NA	Water	6020A	490990
LCS 480-490990/2-A	Lab Control Sample	Total/NA	Water	6020A	490990

Prep Batch: 491489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Dissolved	Ground Water	3020A	490558
MB 480-490558/1-D	Method Blank	Dissolved	Water	3020A	490558
LCS 480-490558/2-D	Lab Control Sample	Dissolved	Water	3020A	490558

Metals (Continued)

Prep Batch: 491489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1 MS	8BCWD	Dissolved	Ground Water	3020A	490558
480-158430-1 MSD	8BCWD	Dissolved	Ground Water	3020A	490558

Prep Batch: 491594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	3020A	
MB 480-491594/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-491594/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 491633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	6010C	490992
MB 480-490992/1-A	Method Blank	Total/NA	Water	6010C	490992
LCS 480-490992/2-A	Lab Control Sample	Total/NA	Water	6010C	490992

Analysis Batch: 491760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Dissolved	Ground Water	6020B	491489
MB 480-490558/1-D	Method Blank	Dissolved	Water	6020B	491489
LCS 480-490558/2-D	Lab Control Sample	Dissolved	Water	6020B	491489
480-158430-1 MS	8BCWD	Dissolved	Ground Water	6020B	491489
480-158430-1 MSD	8BCWD	Dissolved	Ground Water	6020B	491489

Analysis Batch: 492203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-490992/2-A	Lab Control Sample	Total/NA	Water	6010C	490992

Analysis Batch: 492219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	6020A	491594
MB 480-491594/1-A	Method Blank	Total/NA	Water	6020A	491594
LCS 480-491594/2-A	Lab Control Sample	Total/NA	Water	6020A	491594

Prep Batch: 492282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	7470A	
MB 480-492282/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-492282/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 492364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	7470A	492282
MB 480-492282/1-A	Method Blank	Total/NA	Water	7470A	492282
LCS 480-492282/2-A	Lab Control Sample	Total/NA	Water	7470A	492282

General Chemistry

Analysis Batch: 490218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	120.1	
LCS 480-490218/67	Lab Control Sample	Total/NA	Water	120.1	

General Chemistry (Continued)

Analysis Batch: 490218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1 DU	8BCWD	Total/NA	Ground Water	120.1	

Analysis Batch: 490219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	9038	
MB 480-490219/43	Method Blank	Total/NA	Water	9038	
LCS 480-490219/42	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 490322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	SM 2540C	
MB 480-490322/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-490322/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 490610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	353.2	

Analysis Batch: 490772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	SM 5310C	
MB 480-490772/27	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-490772/28	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 491045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	9251	
MB 480-491045/24	Method Blank	Total/NA	Water	9251	
MB 480-491045/32	Method Blank	Total/NA	Water	9251	
LCS 480-491045/25	Lab Control Sample	Total/NA	Water	9251	
LCS 480-491045/33	Lab Control Sample	Total/NA	Water	9251	

Prep Batch: 491056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	Distill/Ammonia	
MB 480-491056/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-491056/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 491204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	350.1	491056
MB 480-491056/1-A	Method Blank	Total/NA	Water	350.1	491056
LCS 480-491056/2-A	Lab Control Sample	Total/NA	Water	350.1	491056

Analysis Batch: 491609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	310.2	
MB 480-491609/108	Method Blank	Total/NA	Water	310.2	
MB 480-491609/37	Method Blank	Total/NA	Water	310.2	
MB 480-491609/56	Method Blank	Total/NA	Water	310.2	
LCS 480-491609/109	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 491609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-491609/38	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-491609/57	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 492558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	410.4	
MB 480-492558/27	Method Blank	Total/NA	Water	410.4	
MB 480-492558/51	Method Blank	Total/NA	Water	410.4	
LCS 480-492558/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-492558/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 493050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	SM 1030E	

Field Service / Mobile Lab

Analysis Batch: 491916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158430-1	8BCWD	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Client Sample ID: 8BCWD

Date Collected: 08/30/19 14:15
Date Received: 08/31/19 09:00

Lab Sample ID: 480-158430-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	491340	09/11/19 11:30	RJF	TAL BUF
Dissolved	Filtration	FILTRATION			490558	09/06/19 09:00	EMB	TAL BUF
Dissolved	Prep	3005A			491115	09/10/19 10:30	EMB	TAL BUF
Dissolved	Analysis	6010C		1	491313	09/11/19 02:23	LMH	TAL BUF
Total/NA	Prep	3005A			490992	09/10/19 06:17	NSW	TAL BUF
Total/NA	Analysis	6010C		1	491633	09/11/19 21:16	AMH	TAL BUF
Total/NA	Prep	3020A			490990	09/10/19 06:10	NSW	TAL BUF
Total/NA	Analysis	6020A		1	491368	09/10/19 14:54	KMP	TAL BUF
Total/NA	Prep	3020A			491594	09/12/19 07:17	EMB	TAL BUF
Total/NA	Analysis	6020A		1	492219	09/12/19 15:24	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			490558	09/06/19 09:00	EMB	TAL BUF
Dissolved	Prep	3020A			491489	09/12/19 07:17	NSW	TAL BUF
Dissolved	Analysis	6020B		1	491760	09/12/19 13:53	KMP	TAL BUF
Total/NA	Prep	7470A			492282	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492364	09/16/19 14:54	BMB	TAL BUF
Total/NA	Analysis	120.1		1	490218	09/04/19 19:48	BEF	TAL BUF
Total/NA	Analysis	310.2		5	491609	09/11/19 20:45	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			491056	09/10/19 09:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	491204	09/10/19 12:38	CLT	TAL BUF
Total/NA	Analysis	353.2		1	490610	09/04/19 16:02	KMF	TAL BUF
Total/NA	Analysis	410.4		2	492558	09/17/19 14:30	CSS	TAL BUF
Total/NA	Analysis	9038		1	490219	09/04/19 19:32	SRW	TAL BUF
Total/NA	Analysis	9251		2	491045	09/09/19 16:35	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	493050	09/19/19 21:54	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	490322	09/05/19 10:32	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	490772	09/06/19 06:36	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	491916	08/30/19 14:15	FLD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-158430-1
Project/Site: Crossroads ME-Wick Drain

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3020A	Ground Water	Cadmium
6020B	3020A	Ground Water	Copper
6020B	3020A	Ground Water	Silver
9038		Ground Water	Sulfate
9251		Ground Water	Chloride
Field Sampling		Ground Water	Field EH/ORP
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Temperature
Field Sampling		Ground Water	Turbidity
SM 1030E		Ground Water	Anion/Cation Balance
SM 1030E		Ground Water	Calculated TDS
SM 1030E		Ground Water	TDS Ratio
SM 1030E		Ground Water	TDS to Conductivity Ratio

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
6020B	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
120.1	Conductivity, Specific Conductance	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-158430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158430-1	8BCWD	Ground Water	08/30/19 14:15	08/31/19 09:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-158430-1
Project/Site: Crossroads ME-Wick Drain

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Ground Water	Dissolved	mg/L	0.010	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Ground Water	Dissolved	mg/L	0.030	0.05
6010C	Potassium	Ground Water	Dissolved	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Ground Water	Dissolved	mg/L	0.40	1.0
6020A	Silver	Ground Water	Total/NA	mg/L	0.00020	0.0005
6020B	Silver	Ground Water	Dissolved	mg/L	0.00020	0.0005
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10

3284

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Katrina Aman	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: (207)831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)		Parameter(s) Requested		Job #:
Address: 357 Mercer Road	Due Date Requested:			
City: Norridgewock	TAT Requested (Business Days)			
State, Zip: ME, 04957				
Phone: 000-0000	PO #: Purchase Order not required			
Email:	WO #:			
Project Name: Crossroads ME/	Project #:			
Site: Maine	SSOW#:			

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Specific Conductance	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 410.4	6020A Total Metals ICPMS (AI)	Cation_Anion - (MOD) Local Method	D-Metals	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:		X	X	N	D	A	N	N	N	N	N	A	S	D	N	D	X	
8BCWD	8/30/19	1415	G	Water	N	N	0	0	2	1	1	X	2	1	3	1	0	X	0	?	Unfortunately I don't have a copy of the bottle order sheet and I can't accurately fill out the number of bottles and parameters. The dissolved metals were unable to be field filtered. Could Test America please filter unpreserved sample for metals? And due to a miscommunication, no other metals bottles were filled. Please use other unpreserved volume for total metals analysis. Please use this chain as a reference point but log-in samples with the correct required analyses based on the bottle order sheets that I don't currently have in front of me.
Trip Blanks				Water	N	N									3					3	

480-158430 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Katrina Aman	Date/Time: 8/30/19 1800	Company KAS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/31/19 900	Company TAS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.2 IR

9/20/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.: | Sample Point: 8BCWD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/30/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or (N)

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: D

Sampling Device: D

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) ____ (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/30/19	6.19	1060	25.4	00	0.9	-73.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: SLIGHT Color: YELLOW Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08.30.19	KATRINA AMAN	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-158430-1

Login Number: 158430
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-162327-1
Client Project/Site: Crossroads ME-2019 GW Tri-ann event
Sampling Event: 2019 GW 2nd&3rd tri-Annual
Semi-Annual Groundwater (8,11)
Revision: 1

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
1/17/2020 11:18:04 AM

Katelyn Ferguson, Project Management Assistant I
(716)691-2600
katelyn.ferguson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Qualifiers

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-162327-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-162327-1

Comments
This report has been revised to exclude the dissolved metals analysis.

Receipt
The samples were received on 11/8/2019 10:00 AM, 11/9/2019 10:00 AM, 11/12/2019 10:00 AM, 11/13/2019 9:30 AM, 11/14/2019 10:00 AM, 11/15/2019 11:30 AM, 11/19/2019 10:00 AM, 11/20/2019 9:45 AM, 11/21/2019 9:45 AM, 11/26/2019 10:00 AM, 12/11/2019 10:00 AM and 12/20/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 16 coolers at receipt time were 1.4º C, 2.5º C, 2.6º C, 2.6º C, 2.6º C, 2.7º C, 2.7º C, 2.9º C, 2.9º C, 3.0º C, 3.0º C, 3.1º C, 3.2º C, 3.2º C, 3.4º C and 3.5º C.

Metals
Method 6010C: The Total Barium, Iron, and Calcium results reported for the following sample do not concur with results previously reported for this site: 620A (480-162327-1). Reanalysis was performed, and the result(s) confirmed.

Method 6010C: The Total Manganese results reported for the following sample do not concur with results previously reported for this site: 629B (480-162327-4). Reanalysis was performed, and the result(s) confirmed.

Method 6010C: The Total Sodium result reported for the following sample did not concur with results previously reported for this site: 107BR (480-162641-2). Reanalysis was performed, and the result confirmed.

Method 6010C: The Total Iron result reported for the following sample did not concur with results previously reported for this site: W11-3E (480-162730-2). Reanalysis was performed, and the result confirmed.

Method 6010C: The low level continuing calibration verification (CCVL 480-507461/25) recovered above the upper control limit for Total Copper. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-505722/2-A) and (MB 480-505722/1-A) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-507461/49) recovered above the upper control limit for Total Copper. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 626B (480-162953-1) and TRANS (480-162953-3) was not performed.

Method 6010C: The continuing calibration verification (CCV 480-507461/54) recovered above the upper control limits for Total Chromium and Vanadium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: TRANS (480-162953-3).

Method 6010C: The low level continuing calibration verification (CCVL 480-507461/56) recovered above the upper control limit for Total Copper. The sample associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples TRANS (480-162953-3) was not performed.

Method 6010C: The method blank for preparation batch 480-506213 and analytical batch 480-506777 contained Total Potassium above the client detection limit. This target analyte concentration was less than the laboratory's standard reporting limit (RL); therefore, re-extraction and/or re-analysis of sample W12-4B (480-163033-1) and W12-3E (480-163033-2) was not performed.

Method 6010C: The Total Calcium and Magnesium results reported for the following sample do not concur with results previously reported for this site: 626B (480-162953-1). Reanalysis was performed, and the results confirmed.

Method 6010C: The Total Iron and Sodium results reported for the following sample did not concur with results previously reported for this site: W12-1E (480-163285-1). Reanalysis was performed, and the result confirmed.

Method 6010C: The results reported for Total Iron and Sodium for the following sample do not concur with results previously reported for

Job ID: 480-162327-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

this site: W12-5E (480-163965-8). Reanalysis was performed, and the result(s) confirmed.

Method 6010C: The Total Iron result reported for the following sample did not concur with results previously reported for this site: W12-2E (480-164496-2). Reanalysis was performed, and the result confirmed.

Methods 200.8, 6020A, 6020B: The interference check standard solution (ICSA) associated with batch 680-596510 had results for one or more elements at a level greater than 2 times the limit of detection (LOD). The vendor acknowledges that these elements are trace impurities in the ICSA standard. These results are not indicative of a matrix interference.

Methods 200.8, 6020A: The interference check standard solution (ICSA) associated with the following samples showed results for Cobalt at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (ICSA 680-597053/16)

Methods 200.8, 6020, 6020A: The interference check standard solution (ICSA) associated with the following samples showed results for Cobalt at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (ICSA 680-597249/12) and (ICSA 680-597249/196)

Methods 200.8, 6020, 6020A, 6020B: The interference check standard solution (ICSA) associated with the following samples showed results for cobalt at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (ICSA 680-597704/12) and (ICSA 680-597704/186)

Methods 200.8, 6020A: The interference check standard solution (ICSA) associated with the following samples showed results for Cobalt at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (ICSA 680-598010/13) and (ICSA 680-598010/263)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 350.1: The results reported for the following samples do not concur with results previously reported for this site: W11-5B (480-162382-3), DUP-GW-04 (480-163965-6) and W11-1B (480-163965-7). Reanalysis was performed, and the result(s) confirmed.

Method SM 5310C: The results reported for the following sample do not concur with results previously reported for this site: 620A (480-162327-1). Reanalysis was performed, and the result(s) confirmed.

Method 353.2: The results reported for the following samples do not concur with results previously reported for this site: 620A (480-162327-1), W9-1E (480-162893-5), 628A (480-162953-2), W11-6E (480-162953-4), W12-3E (480-163033-2) and 618CR (480-163965-4). Reanalysis was performed, and the result(s) confirmed.

Method 310.2: The results reported for the following samples do not concur with results previously reported for this site: 620A (480-162327-1), 626B (480-162953-1) and 628A (480-162953-2). Reanalysis was performed, and the result(s) confirmed.

Methods 9251, SM 4500 Cl- E: The results reported for the following sample do not concur with results previously reported for this site: 620A (480-162327-1) and DUP-GW-01 (480-162577-4). Reanalysis was performed, and the result(s) confirmed.

Methods 9038, D516-90, 02: The results reported for the following samples do not concur with results previously reported for this site: 620A (480-162327-1), 107BR (480-162641-2) and W12-1E (480-163285-1). Reanalysis was performed, and the result(s) confirmed.

Method SM 2540D: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: W12-1E (480-163285-1). The reporting limits (RLs) have been adjusted proportionately.

Method SM 2540C: The results reported for the following samples do not concur with results previously reported for this site: W11-5B

Job ID: 480-162327-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

(480-162382-3) and DUP-GW-04 (480-163965-6). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 620A — Lab Sample ID: 480-162327-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.12		0.0050		mg/L	1		6010C	Total/NA
Calcium	7.0		0.15		mg/L	1		6010C	Total/NA
Iron	0.69		0.030		mg/L	1		6010C	Total/NA
Magnesium	4.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.029		0.010		mg/L	1		6010C	Total/NA
Potassium	2.4		0.20		mg/L	1		6010C	Total/NA
Sodium	5.2		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.27		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	33		10		mg/L	1		310.2	Total/NA
Nitrate	0.16		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	17				%	1		SM 1030E	Total/NA
Calculated TDS	41				mg/L	1		SM 1030E	Total/NA
TDS Ratio	3.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.5				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.5		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	19.8				NTU	1		Field Sampling	Total/NA
Temperature	7.3				Degrees C	1		Field Sampling	Total/NA
Field pH	8.23				SU	1		Field Sampling	Total/NA
Specific Conductance	93				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	258.14				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-84.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 620C — Lab Sample ID: 480-162327-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.024		0.0090		mg/L	1		6010C	Total/NA
Barium	0.14		0.0050		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.6		0.24		mg/L	1		6010C	Total/NA
Manganese	0.014		0.010		mg/L	1		6010C	Total/NA
Potassium	3.2		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	94		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.057		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.2				%	1		SM 1030E	Total/NA
Calculated TDS	98				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	8.2				Degrees C	1		Field Sampling	Total/NA
Field pH	8.51				SU	1		Field Sampling	Total/NA
Specific Conductance	185				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	251.83				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-103.9				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 620C (Continued) — Lab Sample ID: 480-162327-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 630E — Lab Sample ID: 480-162327-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Manganese	0.46		0.010		mg/L	1		6010C	Total/NA
Potassium	0.44		0.20		mg/L	1		6010C	Total/NA
Sodium	5.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	65		10		mg/L	1		310.2	Total/NA
Nitrate	1.6		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	21		5.0		mg/L	1		9038	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.8				%	1		SM 1030E	Total/NA
Calculated TDS	73				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.64				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.26				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	47		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	2.8				NTU	1		Field Sampling	Total/NA
Temperature	8.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.44				SU	1		Field Sampling	Total/NA
Specific Conductance	183				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	261.70				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-65.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 629B — Lab Sample ID: 480-162327-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.017		0.0090		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.021		0.010		mg/L	1		6010C	Total/NA
Potassium	2.3		0.20		mg/L	1		6010C	Total/NA
Sodium	6.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	63		10		mg/L	1		310.2	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	2.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.6				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.55				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	88		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field pH	8.63				SU	1		Field Sampling	Total/NA
Specific Conductance	159				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	248.03				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-170.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.7				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 629E — Lab Sample ID: 480-162327-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0064		0.0050		mg/L	1		6010C	Total/NA
Calcium	13		0.15		mg/L	1		6010C	Total/NA
Chromium	0.011		0.010		mg/L	1		6010C	Total/NA
Iron	0.043		0.030		mg/L	1		6010C	Total/NA
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Potassium	0.99		0.20		mg/L	1		6010C	Total/NA
Sodium	10		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Nitrate	0.98		0.050		mg/L as N	1		353.2	Total/NA
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.4				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.56				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.7				NTU	1		Field Sampling	Total/NA
Temperature	7.3				Degrees C	1		Field Sampling	Total/NA
Field pH	7.83				SU	1		Field Sampling	Total/NA
Specific Conductance	233				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.49				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-77.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 630B — Lab Sample ID: 480-162327-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.018		0.0090		mg/L	1		6010C	Total/NA
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Iron	0.043		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.6		0.24		mg/L	1		6010C	Total/NA
Manganese	0.015		0.010		mg/L	1		6010C	Total/NA
Potassium	2.4		0.20		mg/L	1		6010C	Total/NA
Sodium	8.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	66		10		mg/L	1		310.2	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	1.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.2				%	1		SM 1030E	Total/NA
Calculated TDS	74				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.59				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	95		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.6				NTU	1		Field Sampling	Total/NA
Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
Field pH	8.85				SU	1		Field Sampling	Total/NA
Specific Conductance	160				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-163.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.5				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 101C — Lab Sample ID: 480-162382-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0090		mg/L	1		6010C	Total/NA
Calcium	17		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Potassium	3.1		0.20		mg/L	1		6010C	Total/NA
Sodium	8.9		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	53		10		mg/L	1		310.2	Total/NA
Sulfate	24		5.0		mg/L	1		9038	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.81				%	1		SM 1030E	Total/NA
Calculated TDS	66				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.8				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.74				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.5				NTU	1		Field Sampling	Total/NA
Temperature	7.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.68				SU	1		Field Sampling	Total/NA
Specific Conductance	163				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	254.18				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-144.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	18.07				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-4E — Lab Sample ID: 480-162382-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	47		0.15		mg/L	1		6010C	Total/NA
Magnesium	40		0.24		mg/L	1		6010C	Total/NA
Manganese	0.019		0.010		mg/L	1		6010C	Total/NA
Potassium	3.1		0.20		mg/L	1		6010C	Total/NA
Sodium	18		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	260		30		mg/L	3		310.2	Total/NA
Sulfate	20		5.0		mg/L	1		9038	Total/NA
Chloride	4.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	6.1				%	1		SM 1030E	Total/NA
Calculated TDS	270				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.55				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	300		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.2				NTU	1		Field Sampling	Total/NA
Temperature	5.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.60				SU	1		Field Sampling	Total/NA
Specific Conductance	550				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	255.48				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-106.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	21.73				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5B — Lab Sample ID: 480-162382-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-5B (Continued) — Lab Sample ID: 480-162382-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	3.3		0.24		mg/L	1		6010C	Total/NA
Manganese	0.020		0.010		mg/L	1		6010C	Total/NA
Potassium	2.5		0.20		mg/L	1		6010C	Total/NA
Sodium	9.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	64		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.029		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	8.3		5.0		mg/L	1		9038	Total/NA
Chloride	2.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.4				%	1		SM 1030E	Total/NA
Calculated TDS	71				mg/L	1		SM 1030E	Total/NA
TDS Ratio	2.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.89				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.4				NTU	1		Field Sampling	Total/NA
Temperature	7.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Specific Conductance	157				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	247.51				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-159.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	25.68				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-5E — Lab Sample ID: 480-162382-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0090		mg/L	1		6010C	Total/NA
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Manganese	0.12		0.010		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	6.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	100		20		mg/L	2		310.2	Total/NA
Chloride	2.1		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.73				%	1		SM 1030E	Total/NA
Calculated TDS	98				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.86				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.44				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.6				NTU	1		Field Sampling	Total/NA
Temperature	5.2				Degrees C	1		Field Sampling	Total/NA
Field pH	6.92				SU	1		Field Sampling	Total/NA
Specific Conductance	192				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	258.46				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-122.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	14.82				ft	1		Field Sampling	Total/NA

Client Sample ID: W-11-1ER — Lab Sample ID: 480-162477-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.011		0.0050		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W-11-1ER (Continued)
Lab Sample ID: 480-162477-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Manganese	0.31		0.010		mg/L	1		6010C	Total/NA
Potassium	1.4		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Chloride	2.7		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	6.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Specific Conductance	254				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	263.60				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-86.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	8.47				ft	1		Field Sampling	Total/NA

Client Sample ID: 1008BR2
Lab Sample ID: 480-162477-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.2		0.24		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	3.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	0.19		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	7.2		5.0		mg/L	1		9038	Total/NA
Chloride	2.1		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	83		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	6.9				Degrees C	1		Field Sampling	Total/NA
Field pH	7.92				SU	1		Field Sampling	Total/NA
Specific Conductance	152				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	258.07				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-49.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	12.45				ft	1		Field Sampling	Total/NA

Client Sample ID: 1008ER2
Lab Sample ID: 480-162477-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	54		0.15		mg/L	1		6010C	Total/NA
Iron	0.16		0.030		mg/L	1		6010C	Total/NA
Magnesium	36		0.24		mg/L	1		6010C	Total/NA
Manganese	1.6		0.010		mg/L	1		6010C	Total/NA
Potassium	0.60		0.20		mg/L	1		6010C	Total/NA
Sodium	9.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	320		40		mg/L	4		310.2	Total/NA
Chloride	3.2		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	300		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	6.4				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1008ER2 (Continued) — Lab Sample ID: 480-162477-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Field pH	6.34				SU	1		Field Sampling	Total/NA
Specific Conductance	556				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	262.25				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	6.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	9.25				ft	1		Field Sampling	Total/NA

Client Sample ID: W11-2E — Lab Sample ID: 480-162477-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Iron	0.043		0.030		mg/L	1		6010C	Total/NA
Magnesium	13		0.24		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	80		20		mg/L	2		310.2	Total/NA
Chloride	14		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	5.2				NTU	1		Field Sampling	Total/NA
Temperature	2.7				Degrees C	1		Field Sampling	Total/NA
Field pH	7.73				SU	1		Field Sampling	Total/NA
Specific Conductance	242				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	261.46				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	186.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	5.17				ft	1		Field Sampling	Total/NA

Client Sample ID: 627A — Lab Sample ID: 480-162477-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	9.6		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.0		0.24		mg/L	1		6010C	Total/NA
Potassium	2.5		0.20		mg/L	1		6010C	Total/NA
Sodium	16		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	56		10		mg/L	1		310.2	Total/NA
Nitrate	0.055		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	7.2		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	86		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.0				NTU	1		Field Sampling	Total/NA
Temperature	4.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Specific Conductance	157				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	239.68				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	184.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.7				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.31				ft	1		Field Sampling	Total/NA

Client Sample ID: 310AW — Lab Sample ID: 480-162477-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	22		0.15		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310AW (Continued) — Lab Sample ID: 480-162477-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	2.4		0.24		mg/L	1		6010C	Total/NA
Potassium	2.0		0.20		mg/L	1		6010C	Total/NA
Sodium	4.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	66		10		mg/L	1		310.2	Total/NA
Nitrate	0.24		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	6.5		5.0		mg/L	1		9038	Total/NA
Chloride	5.3		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	56		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.4				NTU	1		Field Sampling	Total/NA
Temperature	3.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.53				SU	1		Field Sampling	Total/NA
Specific Conductance	164				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	270.83				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	223.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	12.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.55				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-4E — Lab Sample ID: 480-162477-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0075		0.0050		mg/L	1		6010C	Total/NA
Calcium	11		0.15		mg/L	1		6010C	Total/NA
Magnesium	10		0.24		mg/L	1		6010C	Total/NA
Potassium	0.77		0.20		mg/L	1		6010C	Total/NA
Sodium	9.9		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	89		20		mg/L	2		310.2	Total/NA
Nitrate	0.33		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	8.7		5.0		mg/L	1		9038	Total/NA
Chloride	0.65		0.50		mg/L	1		9251	Total/NA
Total Dissolved Solids	83		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.7				NTU	1		Field Sampling	Total/NA
Temperature	4.5				Degrees C	1		Field Sampling	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Specific Conductance	184				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.94				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	218.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	11.9				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	7.05				ft	1		Field Sampling	Total/NA

Client Sample ID: 106CR — Lab Sample ID: 480-162577-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.017		0.0050		mg/L	1		6010C	Total/NA
Calcium	75		0.15		mg/L	1		6010C	Total/NA
Iron	0.49		0.030		mg/L	1		6010C	Total/NA
Magnesium	11		0.24		mg/L	1		6010C	Total/NA
Manganese	0.18		0.010		mg/L	1		6010C	Total/NA
Potassium	7.2		0.20		mg/L	1		6010C	Total/NA
Sodium	7.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	210		30		mg/L	3		310.2	Total/NA
Sulfate	29		5.0		mg/L	1		9038	Total/NA
Chloride	6.8		0.50		mg/L	1		9251	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 106CR (Continued) — Lab Sample ID: 480-162577-1

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Anion/Cation Balance	2.0				%	1		SM 1030E	Total/NA
Calculated TDS	230				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	260		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	11.0				NTU	1		Field Sampling	Total/NA
Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.43				SU	1		Field Sampling	Total/NA
Specific Conductance	519				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.32				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-112.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.1				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.95				ft	1		Field Sampling	Total/NA

Client Sample ID: 106DR — Lab Sample ID: 480-162577-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0050		mg/L	1		6010C	Total/NA
Calcium	98		0.15		mg/L	1		6010C	Total/NA
Magnesium	11		0.24		mg/L	1		6010C	Total/NA
Potassium	6.0		0.20		mg/L	1		6010C	Total/NA
Sodium	3.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	300		40		mg/L	4		310.2	Total/NA
Nitrate	0.068		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	29		5.0		mg/L	1		9038	Total/NA
Chloride	2.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.4				%	1		SM 1030E	Total/NA
Calculated TDS	300				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	330		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.1				NTU	1		Field Sampling	Total/NA
Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Specific Conductance	607				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.29				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	158.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.86				ft	1		Field Sampling	Total/NA

Client Sample ID: 106WR — Lab Sample ID: 480-162577-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0060		0.0050		mg/L	1		6010C	Total/NA
Calcium	47		0.15		mg/L	1		6010C	Total/NA
Iron	0.32		0.030		mg/L	1		6010C	Total/NA
Magnesium	6.1		0.24		mg/L	1		6010C	Total/NA
Potassium	3.0		0.20		mg/L	1		6010C	Total/NA
Sodium	2.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Nitrate	0.22		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 106WR (Continued) — Lab Sample ID: 480-162577-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	0.80		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.4				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.60				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	180		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.6		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	8.7				NTU	1		Field Sampling	Total/NA
Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.17				SU	1		Field Sampling	Total/NA
Specific Conductance	300				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	246.60				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	171.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.8				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.20				ft	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-01 — Lab Sample ID: 480-162577-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0056		0.0050		mg/L	1		6010C	Total/NA
Calcium	46		0.15		mg/L	1		6010C	Total/NA
Iron	0.24		0.030		mg/L	1		6010C	Total/NA
Magnesium	6.0		0.24		mg/L	1		6010C	Total/NA
Potassium	2.9		0.20		mg/L	1		6010C	Total/NA
Sodium	2.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Nitrate	0.22		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	0.85		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.5				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.73				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.33				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	100		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	8.7				NTU	1		Field Sampling	Total/NA
Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.17				SU	1		Field Sampling	Total/NA
Specific Conductance	300				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	171.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.8				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 107CR — Lab Sample ID: 480-162641-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	9.8		0.24		mg/L	1		6010C	Total/NA
Potassium	4.2		0.20		mg/L	1		6010C	Total/NA
Sodium	52		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	190		30		mg/L	3		310.2	Total/NA
Sulfate	15		5.0		mg/L	1		9038	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 107CR (Continued) — Lab Sample ID: 480-162641-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	2.2		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.57				%	1		SM 1030E	Total/NA
Calculated TDS	200				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.69				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	240		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.79				SU	1		Field Sampling	Total/NA
Specific Conductance	346				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	245.16				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-63.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 107BR — Lab Sample ID: 480-162641-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.043		0.0050		mg/L	1		6010C	Total/NA
Calcium	130		0.15		mg/L	1		6010C	Total/NA
Iron	3.8		0.030		mg/L	1		6010C	Total/NA
Magnesium	12		0.24		mg/L	1		6010C	Total/NA
Manganese	2.4		0.010		mg/L	1		6010C	Total/NA
Potassium	6.9		0.20		mg/L	1		6010C	Total/NA
Sodium	7.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	340		40		mg/L	4		310.2	Total/NA
Sulfate	22		5.0		mg/L	1		9038	Total/NA
Chloride	35		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.23				%	1		SM 1030E	Total/NA
Calculated TDS	400				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.66				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	440		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.8		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	9.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.77				SU	1		Field Sampling	Total/NA
Specific Conductance	670				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	245.28				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-158.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W12-1B — Lab Sample ID: 480-162641-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0054		0.0050		mg/L	1		6010C	Total/NA
Calcium	31		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.7		0.24		mg/L	1		6010C	Total/NA
Manganese	0.077		0.010		mg/L	1		6010C	Total/NA
Potassium	4.4		0.20		mg/L	1		6010C	Total/NA
Sodium	3.5		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	100		20		mg/L	2		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-1B (Continued)
Lab Sample ID: 480-162641-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Sulfate	5.5		5.0		mg/L	1		9038	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.6				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.67				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	7.9				Degrees C	1		Field Sampling	Total/NA
Field pH	8.16				SU	1		Field Sampling	Total/NA
Specific Conductance	224				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.92				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	222.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-02
Lab Sample ID: 480-162641-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0052		0.0050		mg/L	1		6010C	Total/NA
Calcium	30		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.5		0.24		mg/L	1		6010C	Total/NA
Manganese	0.075		0.010		mg/L	1		6010C	Total/NA
Potassium	4.2		0.20		mg/L	1		6010C	Total/NA
Sodium	3.4		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	98		20		mg/L	2		310.2	Total/NA
Sulfate	11		5.0		mg/L	1		9038	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.81				%	1		SM 1030E	Total/NA
Calculated TDS	100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.8				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.85				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	190		5.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: 310C
Lab Sample ID: 480-162641-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	24		0.15		mg/L	1		6010C	Total/NA
Iron	0.062		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.3		0.24		mg/L	1		6010C	Total/NA
Potassium	2.0		0.20		mg/L	1		6010C	Total/NA
Sodium	4.0		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	66		10		mg/L	1		310.2	Total/NA
Nitrate	0.23		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	5.6		5.0		mg/L	1		9038	Total/NA
Chloride	4.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.97				%	1		SM 1030E	Total/NA
Calculated TDS	77				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.54				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	86		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.3				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 310C (Continued) — Lab Sample ID: 480-162641-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Temperature	7.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.72				SU	1		Field Sampling	Total/NA
Specific Conductance	158				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	270.68				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	212.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 310D — Lab Sample ID: 480-162641-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Iron	0.043		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.0		0.24		mg/L	1		6010C	Total/NA
Potassium	2.1		0.20		mg/L	1		6010C	Total/NA
Sodium	8.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	68		10		mg/L	1		310.2	Total/NA
Nitrate	0.13		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	6.6		5.0		mg/L	1		9038	Total/NA
Chloride	3.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.4				%	1		SM 1030E	Total/NA
Calculated TDS	76				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.60				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	84		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	4.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Specific Conductance	139				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	271.07				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-15.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.8				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 1134B — Lab Sample ID: 480-162730-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0090		mg/L	1		6010C	Total/NA
Calcium	5.0		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.0		0.24		mg/L	1		6010C	Total/NA
Potassium	1.2		0.20		mg/L	1		6010C	Total/NA
Sodium	47		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	120		20		mg/L	2		310.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	1.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-5.5				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.3				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.71				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	8.2				Degrees C	1		Field Sampling	Total/NA
Field pH	9.16				SU	1		Field Sampling	Total/NA
Specific Conductance	238				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1134B (Continued) — Lab Sample ID: 480-162730-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ground Water Elevation	252.09				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	50.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W11-3E — Lab Sample ID: 480-162730-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0083		0.0050		mg/L	1		6010C	Total/NA
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Iron	0.037		0.030		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	0.013		0.010		mg/L	1		6010C	Total/NA
Potassium	1.8		0.20		mg/L	1		6010C	Total/NA
Sodium	12		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Nitrate	0.25		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.19				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	5.5				Degrees C	1		Field Sampling	Total/NA
Field pH	8.09				SU	1		Field Sampling	Total/NA
Specific Conductance	300				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.31				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	155.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	14.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 104C — Lab Sample ID: 480-162893-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0090		mg/L	1		6010C	Total/NA
Barium	0.0086		0.0050		mg/L	1		6010C	Total/NA
Calcium	37		0.15		mg/L	1		6010C	Total/NA
Iron	0.37		0.030		mg/L	1		6010C	Total/NA
Magnesium	7.1		0.24		mg/L	1		6010C	Total/NA
Manganese	0.85		0.010		mg/L	1		6010C	Total/NA
Potassium	3.5		0.20		mg/L	1		6010C	Total/NA
Sodium	9.2		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Sulfate	14		5.0		mg/L	1		9038	Total/NA
Chloride	3.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.5				%	1		SM 1030E	Total/NA
Calculated TDS	150				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.61				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	89		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.4				NTU	1		Field Sampling	Total/NA
Temperature	4.6				Degrees C	1		Field Sampling	Total/NA
Field pH	8.16				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 104C (Continued) — Lab Sample ID: 480-162893-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	191				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	249.98				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-64.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 104D — Lab Sample ID: 480-162893-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	4.3		0.15		mg/L	1		6010C	Total/NA
Iron	0.041		0.030		mg/L	1		6010C	Total/NA
Magnesium	0.52		0.24		mg/L	1		6010C	Total/NA
Manganese	0.024		0.010		mg/L	1		6010C	Total/NA
Potassium	1.1		0.20		mg/L	1		6010C	Total/NA
Sodium	41		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	94		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.063		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.3				%	1		SM 1030E	Total/NA
Calculated TDS	100				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.57				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.21				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	60		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	5.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.62				SU	1		Field Sampling	Total/NA
Specific Conductance	280				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.29				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-8.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	11.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 617A — Lab Sample ID: 480-162893-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.010		0.0050		mg/L	1		6010C	Total/NA
Calcium	20		0.15		mg/L	1		6010C	Total/NA
Iron	0.32		0.030		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	0.051		0.010		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	35		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	180		20		mg/L	2		310.2	Total/NA
Sulfate	32		5.0		mg/L	1		9038	Total/NA
Chloride	3.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-6.5				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.71				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.92				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	24		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	11.0				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 617A (Continued) — Lab Sample ID: 480-162893-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Temperature	4.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.87				SU	1		Field Sampling	Total/NA
Specific Conductance	332				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	264.94				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-55.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 617C — Lab Sample ID: 480-162893-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Iron	0.26		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.3		0.24		mg/L	1		6010C	Total/NA
Potassium	2.4		0.20		mg/L	1		6010C	Total/NA
Sodium	38		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.43		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Sulfate	12		5.0		mg/L	1		9038	Total/NA
Chloride	3.4		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.4				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.85				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	120		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	4.5				NTU	1		Field Sampling	Total/NA
Temperature	7.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.54				SU	1		Field Sampling	Total/NA
Specific Conductance	240				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.82				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-141.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W9-1E — Lab Sample ID: 480-162893-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	19		0.15		mg/L	1		6010C	Total/NA
Magnesium	13		0.24		mg/L	1		6010C	Total/NA
Manganese	0.036		0.010		mg/L	1		6010C	Total/NA
Potassium	2.6		0.20		mg/L	1		6010C	Total/NA
Sodium	20		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	140		20		mg/L	2		310.2	Total/NA
Nitrate	0.43		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	7.9		5.0		mg/L	1		9038	Total/NA
Chloride	2.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-1.8				%	1		SM 1030E	Total/NA
Calculated TDS	140				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.64				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.41				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	91		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	1.4				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W9-1E (Continued) — Lab Sample ID: 480-162893-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Temperature	5.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Specific Conductance	223				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.60				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-78.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	8.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W9-2E — Lab Sample ID: 480-162893-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	18		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	130		20		mg/L	2		310.2	Total/NA
Chloride	3.3		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-0.58				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.59				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.30				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	75		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.6				NTU	1		Field Sampling	Total/NA
Temperature	6.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.26				SU	1		Field Sampling	Total/NA
Specific Conductance	250				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	256.97				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-93.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-03 — Lab Sample ID: 480-162893-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.014		0.0090		mg/L	1		6010C	Total/NA
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Iron	0.25		0.030		mg/L	1		6010C	Total/NA
Magnesium	3.2		0.24		mg/L	1		6010C	Total/NA
Potassium	2.3		0.20		mg/L	1		6010C	Total/NA
Sodium	37		0.40		mg/L	1		6010C	Total/NA
Aluminum	0.47		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	160		20		mg/L	2		310.2	Total/NA
Sulfate	16		5.0		mg/L	1		9038	Total/NA
Chloride	3.9		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-15				%	1		SM 1030E	Total/NA
Calculated TDS	160				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.89				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.58				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	140		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
Turbidity	4.5				NTU	1		Field Sampling	Total/NA
Temperature	7.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.54				SU	1		Field Sampling	Total/NA
Specific Conductance	240				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-GW-03 (Continued)
Lab Sample ID: 480-162893-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Field EH/ORP	-141.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 626B
Lab Sample ID: 480-162953-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	6.7		0.15		mg/L	1		6010C	Total/NA
Magnesium	1.3		0.24		mg/L	1		6010C	Total/NA
Potassium	1.7		0.20		mg/L	1		6010C	Total/NA
Sodium	1.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	22		10		mg/L	1		310.2	Total/NA
Chloride	3.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.6				%	1		SM 1030E	Total/NA
Calculated TDS	27				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.67				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	40		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field pH	5.98				SU	1		Field Sampling	Total/NA
Specific Conductance	60				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	244.45				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-106.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.5				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	12.53				ft	1		Field Sampling	Total/NA

Client Sample ID: 628A
Lab Sample ID: 480-162953-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	15		0.15		mg/L	1		6010C	Total/NA
Magnesium	4.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.014		0.010		mg/L	1		6010C	Total/NA
Potassium	3.1		0.20		mg/L	1		6010C	Total/NA
Sodium	15		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Nitrate	0.93		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	20		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-20				%	1		SM 1030E	Total/NA
Calculated TDS	110				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.30				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	10.6				NTU	1		Field Sampling	Total/NA
Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.46				SU	1		Field Sampling	Total/NA
Specific Conductance	536				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	239.72				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-122.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.4				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	2.47				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: TRANS — Lab Sample ID: 480-162953-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	12		0.15		mg/L	1		6010C	Total/NA
Iron	0.048		0.030		mg/L	1		6010C	Total/NA
Magnesium	2.2		0.24		mg/L	1		6010C	Total/NA
Potassium	1.9		0.20		mg/L	1		6010C	Total/NA
Sodium	16		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	62		10		mg/L	1		310.2	Total/NA
Nitrate	0.10		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	8.1		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.4				%	1		SM 1030E	Total/NA
Calculated TDS	72				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.5				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.75				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	110		5.0		mg/L	1		SM 2540C	Total/NA
Total Coliform	Present		1		CFU/100mL	1		SM 9223B	Total/NA
E. Coli	Absent		1		CFU/100mL	1		SM 9223B	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Specific Conductance	146				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-142.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W11-6E — Lab Sample ID: 480-162953-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	22		0.15		mg/L	1		6010C	Total/NA
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Manganese	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	9.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	65		20		mg/L	2		310.2	Total/NA
Sulfate	19		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	26				%	1		SM 1030E	Total/NA
Calculated TDS	92				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.97				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	130		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.60				SU	1		Field Sampling	Total/NA
Specific Conductance	134				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	229.11				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-150.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.3				mg/L	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	16.02				ft	1		Field Sampling	Total/NA

Client Sample ID: W12-4B — Lab Sample ID: 480-163033-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.020		0.0090		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W12-4B (Continued)

Lab Sample ID: 480-163033-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	17		0.15		mg/L	1		6010C	Total/NA
Magnesium	3.3		0.24		mg/L	1		6010C	Total/NA
Manganese	0.029		0.010		mg/L	1		6010C	Total/NA
Potassium	3.6	BL	0.20		mg/L	1		6010C	Total/NA
Sodium	11		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	69		20		mg/L	2		310.2	Total/NA
Sulfate	5.7		5.0		mg/L	1		9038	Total/NA
Chloride	1.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	4.6				%	1		SM 1030E	Total/NA
Calculated TDS	78				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.9				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.95				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	150		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field pH	8.15				SU	1		Field Sampling	Total/NA
Specific Conductance	158				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	234.43				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-125.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W12-3E

Lab Sample ID: 480-163033-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0052		0.0050		mg/L	1		6010C	Total/NA
Calcium	35		0.15		mg/L	1		6010C	Total/NA
Magnesium	18		0.24		mg/L	1		6010C	Total/NA
Potassium	1.6	BL	0.20		mg/L	1		6010C	Total/NA
Sodium	7.7		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	200		20		mg/L	2		310.2	Total/NA
Nitrate	1.0		0.050		mg/L as N	1		353.2	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-6.7				%	1		SM 1030E	Total/NA
Calculated TDS	190				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.92				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.2				NTU	1		Field Sampling	Total/NA
Temperature	6.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA
Specific Conductance	358				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	240.72				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	51.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.7				mg/L	1		Field Sampling	Total/NA

Client Sample ID: W12-1E

Lab Sample ID: 480-163285-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.024		0.0050		mg/L	1		6010C	Total/NA
Calcium	4.7		0.15		mg/L	1		6010C	Total/NA
Iron	3.7		0.030		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W12-1E (Continued)

Lab Sample ID: 480-163285-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Magnesium	6.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.060		0.010		mg/L	1		6010C	Total/NA
Potassium	1.5		0.20		mg/L	1		6010C	Total/NA
Sodium	8.8		0.40		mg/L	1		6010C	Total/NA
Aluminum	2.7		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	30		10		mg/L	1		310.2	Total/NA
Sulfate	19		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	12				%	1		SM 1030E	Total/NA
Calculated TDS	45				mg/L	1		SM 1030E	Total/NA
TDS Ratio	3.7				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.59				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.0		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	61.1				NTU	1		Field Sampling	Total/NA
Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.86				SU	1		Field Sampling	Total/NA
Specific Conductance	335				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	254.38				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-69.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	12.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 1040B

Lab Sample ID: 480-163965-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0089		0.0050		mg/L	1		6010C	Total/NA
Calcium	21		0.15		mg/L	1		6010C	Total/NA
Magnesium	7.2		0.24		mg/L	1		6010C	Total/NA
Manganese	0.096		0.010		mg/L	1		6010C	Total/NA
Potassium	2.6		0.20		mg/L	1		6010C	Total/NA
Sodium	5.4		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	88		10		mg/L	1		310.2	Total/NA
Nitrate	0.26		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	17		5.0		mg/L	1		9038	Total/NA
Chloride	2.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-5.9				%	1		SM 1030E	Total/NA
Calculated TDS	91				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.59				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	89		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	2.0				NTU	1		Field Sampling	Total/NA
Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field pH	6.20				SU	1		Field Sampling	Total/NA
Specific Conductance	150				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.31				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-114.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.8				mg/L	1		Field Sampling	Total/NA
Purge Rate	6.3				L/min	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 1041B — Lab Sample ID: 480-163965-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0050		mg/L	1		6010C	Total/NA
Calcium	44		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Potassium	27		0.20		mg/L	1		6010C	Total/NA
Sodium	8.3		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	110		30		mg/L	3		310.2	Total/NA
Nitrate	0.077		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	63		10		mg/L	2		9038	Total/NA
Chloride	5.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	9.9				%	1		SM 1030E	Total/NA
Calculated TDS	170				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.37				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.6		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.9				NTU	1		Field Sampling	Total/NA
Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field pH	5.83				SU	1		Field Sampling	Total/NA
Specific Conductance	456				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-89.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.5				mg/L	1		Field Sampling	Total/NA
Purge Rate	4.0				L/min	1		Field Sampling	Total/NA

Client Sample ID: 618AR — Lab Sample ID: 480-163965-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	41		0.15		mg/L	1		6010C	Total/NA
Magnesium	46		0.24		mg/L	1		6010C	Total/NA
Manganese	0.030		0.010		mg/L	1		6010C	Total/NA
Potassium	2.2		0.20		mg/L	1		6010C	Total/NA
Sodium	20		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	320		40		mg/L	4		310.2	Total/NA
Sulfate	8.3		5.0		mg/L	1		9038	Total/NA
Chloride	5.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.27				%	1		SM 1030E	Total/NA
Calculated TDS	310				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.98				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.47				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	300		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	8.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Specific Conductance	637				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	257.14				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	71.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.0				mg/L	1		Field Sampling	Total/NA
Purge Rate	0.1				L/min	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 618CR — Lab Sample ID: 480-163965-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.016		0.0090		mg/L	1		6010C	Total/NA
Barium	0.028		0.0050		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	2.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.021		0.010		mg/L	1		6010C	Total/NA
Potassium	2.4		0.20		mg/L	1		6010C	Total/NA
Sodium	13		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	70		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.030		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.055		0.050		mg/L as N	1		353.2	Total/NA
Sulfate	13		5.0		mg/L	1		9038	Total/NA
Chloride	1.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.4				%	1		SM 1030E	Total/NA
Calculated TDS	75				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.61				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.28				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	46		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field pH	8.45				SU	1		Field Sampling	Total/NA
Specific Conductance	162				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	252.78				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-63.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.2				mg/L	1		Field Sampling	Total/NA
Purge Rate	14.0				L/min	1		Field Sampling	Total/NA

Client Sample ID: 624B — Lab Sample ID: 480-163965-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.0050		mg/L	1		6010C	Total/NA
Calcium	94		0.15		mg/L	1		6010C	Total/NA
Magnesium	15		0.24		mg/L	1		6010C	Total/NA
Manganese	1.9		0.010		mg/L	1		6010C	Total/NA
Potassium	5.1		0.20		mg/L	1		6010C	Total/NA
Sodium	3.1		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	390		40		mg/L	4		310.2	Total/NA
Ammonia as N	0.031		0.020		mg/L as N	1		350.1	Total/NA
Sulfate	32		5.0		mg/L	1		9038	Total/NA
Chloride	2.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-27				%	1		SM 1030E	Total/NA
Calculated TDS	340				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.0				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.50				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	340		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	3.6				NTU	1		Field Sampling	Total/NA
Temperature	9.6				Degrees C	1		Field Sampling	Total/NA
Field pH	6.37				SU	1		Field Sampling	Total/NA
Specific Conductance	687				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	242.32				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-167.4				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 624B (Continued) — Lab Sample ID: 480-163965-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.4				mg/L	1		Field Sampling	Total/NA
Purge Rate	11.3				L/min	1		Field Sampling	Total/NA

Client Sample ID: DUP-GW-04 — Lab Sample ID: 480-163965-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.029		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.018		0.010		mg/L	1		6010C	Total/NA
Potassium	1.6		0.20		mg/L	1		6010C	Total/NA
Sodium	7.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	81		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.061		0.020		mg/L as N	1		350.1	Total/NA
Chloride	0.64		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-2.5				%	1		SM 1030E	Total/NA
Calculated TDS	78				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.19				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.098				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	15		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA
Temperature	9.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Specific Conductance	153				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-195.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.3				mg/L	1		Field Sampling	Total/NA
Purge Rate	12.6				L/min	1		Field Sampling	Total/NA

Client Sample ID: W11-1B — Lab Sample ID: 480-163965-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.030		0.0090		mg/L	1		6010C	Total/NA
Calcium	14		0.15		mg/L	1		6010C	Total/NA
Magnesium	5.8		0.24		mg/L	1		6010C	Total/NA
Manganese	0.017		0.010		mg/L	1		6010C	Total/NA
Potassium	1.6		0.20		mg/L	1		6010C	Total/NA
Sodium	7.8		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	76		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.069		0.020		mg/L as N	1		350.1	Total/NA
Chloride	0.53		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	0.75				%	1		SM 1030E	Total/NA
Calculated TDS	75				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.60				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	92		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA
Temperature	9.0				Degrees C	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Specific Conductance	153				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	252.05				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	-195.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.3				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: W11-1B (Continued) — Lab Sample ID: 480-163965-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Purge Rate	12.6				L/min	1		Field Sampling	Total/NA

Client Sample ID: W12-5E — Lab Sample ID: 480-163965-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0096		0.0050		mg/L	1		6010C	Total/NA
Calcium	59		0.15		mg/L	1		6010C	Total/NA
Iron	0.038		0.030		mg/L	1		6010C	Total/NA
Magnesium	6.0		0.24		mg/L	1		6010C	Total/NA
Potassium	4.9		0.20		mg/L	1		6010C	Total/NA
Sodium	1.6		0.40		mg/L	1		6010C	Total/NA
Alkalinity, Total	170		20		mg/L	2		310.2	Total/NA
Nitrate	1.3		0.050		mg/L as N	1		353.2	Total/NA
Chloride	0.55		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	1.8				%	1		SM 1030E	Total/NA
Calculated TDS	180				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.97				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.48				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	170		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Temperature	9.6				Degrees C	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Specific Conductance	353				umhos/cm	1		Field Sampling	Total/NA
Ground Water Elevation	250.74				ft/msl	1		Field Sampling	Total/NA
Field EH/ORP	55.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.2				mg/L	1		Field Sampling	Total/NA
Purge Rate	12.0				L/min	1		Field Sampling	Total/NA

Client Sample ID: W12-2E — Lab Sample ID: 480-164496-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Barium	0.0091		0.0050		mg/L	1		6010C	Total/NA
Calcium	0.80		0.15		mg/L	1		6010C	Total/NA
Iron	0.083		0.030		mg/L	1		6010C	Total/NA
Magnesium	0.49		0.24		mg/L	1		6010C	Total/NA
Potassium	0.40		0.20		mg/L	1		6010C	Total/NA
Sodium	1.3		0.40		mg/L	1		6010C	Total/NA
Chloride	1.5		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	56				%	1		SM 1030E	Total/NA
Calculated TDS	4.6				mg/L	1		SM 1030E	Total/NA
TDS Ratio	5.7				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.2				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	160		5.0		mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids	26		5.0		mg/L	1		SM 2540C	Total/NA
Turbidity	0.3				NTU	1		Field Sampling	Total/NA
Temperature	3.7				Degrees C	1		Field Sampling	Total/NA
Field pH	5.26				SU	1		Field Sampling	Total/NA
Specific Conductance	22				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-56.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	10.9				mg/L	1		Field Sampling	Total/NA
Purge Rate	0.1				L/min	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 620A

Date Collected: 11/07/19 13:29
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/11/19 10:20	11/14/19 00:44	1
Barium	**0.12**		0.0050		mg/L		11/11/19 10:20	11/14/19 00:44	1
Calcium	**7.0**		0.15		mg/L		11/11/19 10:20	11/14/19 00:44	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:44	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:44	1
Iron	**0.69**		0.030		mg/L		11/11/19 10:20	11/14/19 00:44	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:44	1
Magnesium	**4.1**		0.24		mg/L		11/11/19 10:20	11/14/19 00:44	1
Manganese	**0.029**		0.010		mg/L		11/11/19 10:20	11/14/19 00:44	1
Potassium	**2.4**		0.20		mg/L		11/11/19 10:20	11/14/19 00:44	1
Sodium	**5.2**		0.40		mg/L		11/11/19 10:20	11/14/19 00:44	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:44	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 00:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.27**		0.25		mg/L		11/13/19 12:02	11/16/19 00:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**17**				%			12/11/19 10:30	1
Calculated TDS	**41**				mg/L			12/11/19 10:30	1
TDS Ratio	**3.4**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**1.5**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**33**		10		mg/L			11/21/19 16:06	1
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:40	1
Nitrate	**0.16**		0.050		mg/L as N			11/08/19 20:52	1
Sulfate	ND	U	5.0		mg/L			11/26/19 09:40	1
Chloride	**1.5**		0.50		mg/L			11/21/19 15:56	1
Total Dissolved Solids	**140**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	**4.5**		1.0		mg/L			11/17/19 00:43	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.8**		4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**19.8**				NTU			11/07/19 13:29	1
Temperature	**7.3**				Degrees C			11/07/19 13:29	1
Field pH	**8.23**				SU			11/07/19 13:29	1
Specific Conductance	**93**				umhos/cm			11/07/19 13:29	1
Ground Water Elevation	**258.14**				ft/msl			11/07/19 13:29	1
Field EH/ORP	**-84.5**				millivolts			11/07/19 13:29	1
Oxygen, Dissolved	**5.9**				mg/L			11/07/19 13:29	1

Client Sample ID: 620C

Date Collected: 11/07/19 14:20
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.024**		0.0090		mg/L		11/11/19 10:20	11/14/19 00:48	1
Barium	**0.14**		0.0050		mg/L		11/11/19 10:20	11/14/19 00:48	1
Calcium	**20**		0.15		mg/L		11/11/19 10:20	11/14/19 00:48	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:48	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:48	1
Iron	ND	U	0.030		mg/L		11/11/19 10:20	11/14/19 00:48	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:48	1
Magnesium	**5.6**		0.24		mg/L		11/11/19 10:20	11/14/19 00:48	1
Manganese	**0.014**		0.010		mg/L		11/11/19 10:20	11/14/19 00:48	1
Potassium	**3.2**		0.20		mg/L		11/11/19 10:20	11/14/19 00:48	1
Sodium	**11**		0.40		mg/L		11/11/19 10:20	11/14/19 00:48	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:48	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 00:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 00:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.2**				%			12/11/19 10:30	1
Calculated TDS	**98**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.0**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.54**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**94**		10		mg/L			11/20/19 17:12	1
Ammonia as N	**0.057**		0.020		mg/L as N			11/15/19 08:40	1
Nitrate	ND	U	0.050		mg/L as N			11/08/19 18:40	1
Sulfate	**13**		5.0		mg/L			11/21/19 19:44	1
Chloride	**1.7**		0.50		mg/L			11/20/19 19:06	1
Total Dissolved Solids	**100**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 04:20	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/07/19 14:20	1
Temperature	**8.2**				Degrees C			11/07/19 14:20	1
Field pH	**8.51**				SU			11/07/19 14:20	1
Specific Conductance	**185**				umhos/cm			11/07/19 14:20	1
Ground Water Elevation	**251.83**				ft/msl			11/07/19 14:20	1
Field EH/ORP	**-103.9**				millivolts			11/07/19 14:20	1
Oxygen, Dissolved	**1.9**				mg/L			11/07/19 14:20	1

Client Sample ID: 630E

Date Collected: 11/07/19 11:41
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/11/19 10:20	11/14/19 00:52	1
Barium	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:52	1
Calcium	**15**		0.15		mg/L		11/11/19 10:20	11/14/19 00:52	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:52	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:52	1
Iron	ND	U	0.030		mg/L		11/11/19 10:20	11/14/19 00:52	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:52	1
Magnesium	**10**		0.24		mg/L		11/11/19 10:20	11/14/19 00:52	1
Manganese	**0.46**		0.010		mg/L		11/11/19 10:20	11/14/19 00:52	1
Potassium	**0.44**		0.20		mg/L		11/11/19 10:20	11/14/19 00:52	1
Sodium	**5.3**		0.40		mg/L		11/11/19 10:20	11/14/19 00:52	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:52	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 00:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 00:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.8**				%			12/11/19 10:30	1
Calculated TDS	**73**				mg/L			12/11/19 10:30	1
TDS Ratio	**0.64**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.26**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**65**		10		mg/L			11/20/19 17:12	1
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:41	1
Nitrate	**1.6**		0.050		mg/L as N			11/08/19 20:53	1
Sulfate	**21**		5.0		mg/L			11/21/19 18:54	1
Chloride	**1.6**		0.50		mg/L			11/20/19 19:06	1
Total Dissolved Solids	**47**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	**2.4**		1.0		mg/L			11/15/19 04:37	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.8**				NTU			11/07/19 11:41	1
Temperature	**8.0**				Degrees C			11/07/19 11:41	1
Field pH	**6.44**				SU			11/07/19 11:41	1
Specific Conductance	**183**				umhos/cm			11/07/19 11:41	1
Ground Water Elevation	**261.70**				ft/msl			11/07/19 11:41	1
Field EH/ORP	**-65.1**				millivolts			11/07/19 11:41	1
Oxygen, Dissolved	**6.7**				mg/L			11/07/19 11:41	1

Client Sample ID: 629B

Date Collected: 11/07/19 11:05
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**		0.0090		mg/L		11/11/19 10:20	11/14/19 00:55	1
Barium	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:55	1
Calcium	**20**		0.15		mg/L		11/11/19 10:20	11/14/19 00:55	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:55	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:55	1
Iron	ND	U	0.030		mg/L		11/11/19 10:20	11/14/19 00:55	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:55	1
Magnesium	**3.5**		0.24		mg/L		11/11/19 10:20	11/14/19 00:55	1
Manganese	**0.021**		0.010		mg/L		11/11/19 10:20	11/14/19 00:55	1
Potassium	**2.3**		0.20		mg/L		11/11/19 10:20	11/14/19 00:55	1
Sodium	**6.1**		0.40		mg/L		11/11/19 10:20	11/14/19 00:55	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:55	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 00:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 00:29	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.6**				%			12/11/19 10:30	1
Calculated TDS	**72**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.2**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.55**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**63**		10		mg/L			11/20/19 20:00	1
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:42	1
Nitrate	ND	U	0.050		mg/L as N			11/08/19 18:45	1
Sulfate	**18**		5.0		mg/L			11/21/19 18:54	1
Chloride	**2.3**		0.50		mg/L			11/20/19 19:06	1
Total Dissolved Solids	**88**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 04:53	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/07/19 11:05	1
Temperature	**10.2**				Degrees C			11/07/19 11:05	1
Field pH	**8.63**				SU			11/07/19 11:05	1
Specific Conductance	**159**				umhos/cm			11/07/19 11:05	1
Ground Water Elevation	**248.03**				ft/msl			11/07/19 11:05	1
Field EH/ORP	**-170.5**				millivolts			11/07/19 11:05	1
Oxygen, Dissolved	**0.7**				mg/L			11/07/19 11:05	1

Client Sample ID: 629E

Date Collected: 11/07/19 10:20
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/11/19 10:20	11/14/19 01:10	1
Barium	**0.0064**		0.0050		mg/L		11/11/19 10:20	11/14/19 01:10	1
Calcium	**13**		0.15		mg/L		11/11/19 10:20	11/14/19 01:10	1
Chromium	**0.011**		0.010		mg/L		11/11/19 10:20	11/14/19 01:10	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 01:10	1
Iron	**0.043**		0.030		mg/L		11/11/19 10:20	11/14/19 01:10	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 01:10	1
Magnesium	**18**		0.24		mg/L		11/11/19 10:20	11/14/19 01:10	1
Manganese	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 01:10	1
Potassium	**0.99**		0.20		mg/L		11/11/19 10:20	11/14/19 01:10	1
Sodium	**10**		0.40		mg/L		11/11/19 10:20	11/14/19 01:10	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 01:10	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 01:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 00:47	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.4**				%			12/11/19 10:30	1
Calculated TDS	**120**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.1**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.56**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			11/20/19 19:30	2
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:43	1
Nitrate	**0.98**		0.050		mg/L as N			11/08/19 20:54	1
Sulfate	ND	U	5.0		mg/L			11/21/19 19:44	1
Chloride	**1.8**		0.50		mg/L			11/20/19 19:06	1
Total Dissolved Solids	**130**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 05:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.7**				NTU			11/07/19 10:20	1
Temperature	**7.3**				Degrees C			11/07/19 10:20	1
Field pH	**7.83**				SU			11/07/19 10:20	1
Specific Conductance	**233**				umhos/cm			11/07/19 10:20	1
Ground Water Elevation	**250.49**				ft/msl			11/07/19 10:20	1
Field EH/ORP	**-77.2**				millivolts			11/07/19 10:20	1
Oxygen, Dissolved	**8.2**				mg/L			11/07/19 10:20	1

Client Sample ID: 630B

Date Collected: 11/07/19 12:35
Date Received: 11/08/19 10:00

Lab Sample ID: 480-162327-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**		0.0090		mg/L		11/11/19 10:20	11/14/19 01:14	1
Barium	**0.010**		0.0050		mg/L		11/11/19 10:20	11/14/19 01:14	1
Calcium	**18**		0.15		mg/L		11/11/19 10:20	11/14/19 01:14	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 01:14	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 01:14	1
Iron	**0.043**		0.030		mg/L		11/11/19 10:20	11/14/19 01:14	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 01:14	1
Magnesium	**3.6**		0.24		mg/L		11/11/19 10:20	11/14/19 01:14	1
Manganese	**0.015**		0.010		mg/L		11/11/19 10:20	11/14/19 01:14	1
Potassium	**2.4**		0.20		mg/L		11/11/19 10:20	11/14/19 01:14	1
Sodium	**8.5**		0.40		mg/L		11/11/19 10:20	11/14/19 01:14	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 01:14	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 01:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 01:01	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.2**				%			12/11/19 10:30	1
Calculated TDS	**74**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.3**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.59**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**66**		10		mg/L			11/20/19 17:07	1
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:44	1
Nitrate	ND	U	0.050		mg/L as N			11/08/19 18:48	1
Sulfate	**16**		5.0		mg/L			11/21/19 18:55	1
Chloride	**1.8**		0.50		mg/L			11/20/19 19:06	1
Total Dissolved Solids	**95**		5.0		mg/L			11/13/19 16:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 06:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.6**				NTU			11/07/19 12:35	1
Temperature	**9.7**				Degrees C			11/07/19 12:35	1
Field pH	**8.85**				SU			11/07/19 12:35	1
Specific Conductance	**160**				umhos/cm			11/07/19 12:35	1
Field EH/ORP	**-163.7**				millivolts			11/07/19 12:35	1
Oxygen, Dissolved	**0.5**				mg/L			11/07/19 12:35	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 101C

Date Collected: 11/08/19 13:44
Date Received: 11/09/19 10:00

Lab Sample ID: 480-162382-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0090		mg/L		11/12/19 09:32	11/19/19 20:36	1
Barium	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:36	1
Calcium	**17**		0.15		mg/L		11/12/19 09:32	11/19/19 20:36	1
Chromium	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 20:36	1
Copper	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:36	1
Iron	ND	U	0.030		mg/L		11/12/19 09:32	11/19/19 20:36	1
Lead	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:36	1
Magnesium	**3.2**		0.24		mg/L		11/12/19 09:32	11/19/19 20:36	1
Manganese	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 20:36	1
Potassium	**3.1**		0.20		mg/L		11/12/19 09:32	11/19/19 20:36	1
Sodium	**8.9**		0.40		mg/L		11/12/19 09:32	11/19/19 20:36	1
Vanadium	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:36	1
Zinc	ND	U	0.020		mg/L		11/12/19 09:32	11/19/19 20:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 01:04	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.81**				%			12/11/19 10:30	1
Calculated TDS	**66**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.8**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.74**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**53**		10		mg/L			11/20/19 17:28	1
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 15:56	1
Nitrate	ND	U	0.050		mg/L as N			11/09/19 15:31	1
Sulfate	**24**		5.0		mg/L			11/21/19 19:35	1
Chloride	**1.6**		0.50		mg/L			11/20/19 20:08	1
Total Dissolved Solids	**120**		5.0		mg/L			11/14/19 13:55	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 10:26	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.5**				NTU			11/08/19 13:44	1
Temperature	**7.5**				Degrees C			11/08/19 13:44	1
Field pH	**7.68**				SU			11/08/19 13:44	1
Specific Conductance	**163**				umhos/cm			11/08/19 13:44	1
Ground Water Elevation	**254.18**				ft/msl			11/08/19 13:44	1
Field EH/ORP	**-144.5**				millivolts			11/08/19 13:44	1
Oxygen, Dissolved	**1.1**				mg/L			11/08/19 13:44	1
Depth to Water from Top of Casing	**18.07**				ft			11/08/19 13:44	1

Client Sample ID: W11-4E

Date Collected: 11/08/19 10:31
Date Received: 11/09/19 10:00

Lab Sample ID: 480-162382-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/12/19 09:32	11/19/19 20:39	1
Barium	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:39	1
Calcium	**47**		0.15		mg/L		11/12/19 09:32	11/19/19 20:39	1
Chromium	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 20:39	1
Copper	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:39	1
Iron	ND	U	0.030		mg/L		11/12/19 09:32	11/19/19 20:39	1
Lead	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:39	1
Magnesium	**40**		0.24		mg/L		11/12/19 09:32	11/19/19 20:39	1
Manganese	**0.019**		0.010		mg/L		11/12/19 09:32	11/19/19 20:39	1
Potassium	**3.1**		0.20		mg/L		11/12/19 09:32	11/19/19 20:39	1
Sodium	**18**		0.40		mg/L		11/12/19 09:32	11/19/19 20:39	1
Vanadium	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:39	1
Zinc	ND	U	0.020		mg/L		11/12/19 09:32	11/19/19 20:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 01:07	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**6.1**				%			12/11/19 10:30	1
Calculated TDS	**270**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.1**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.55**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**260**		30		mg/L			11/20/19 17:40	3
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 15:56	1
Nitrate	ND	U	0.050		mg/L as N			11/09/19 15:32	1
Sulfate	**20**		5.0		mg/L			11/21/19 19:38	1
Chloride	**4.8**		0.50		mg/L			11/20/19 20:08	1
Total Dissolved Solids	**300**		5.0		mg/L			11/14/19 13:55	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 10:42	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/14/19 15:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.2**				NTU			11/08/19 10:31	1
Temperature	**5.3**				Degrees C			11/08/19 10:31	1
Field pH	**6.60**				SU			11/08/19 10:31	1
Specific Conductance	**550**				umhos/cm			11/08/19 10:31	1
Ground Water Elevation	**255.48**				ft/msl			11/08/19 10:31	1
Field EH/ORP	**-106.7**				millivolts			11/08/19 10:31	1
Oxygen, Dissolved	**5.1**				mg/L			11/08/19 10:31	1
Depth to Water from Top of Casing	**21.73**				ft			11/08/19 10:31	1

Client Sample ID: W11-5B

Date Collected: 11/08/19 12:03
Date Received: 11/09/19 10:00

Lab Sample ID: 480-162382-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0090		mg/L		11/12/19 09:32	11/19/19 20:43	1
Barium	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:43	1
Calcium	**15**		0.15		mg/L		11/12/19 09:32	11/19/19 20:43	1
Chromium	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 20:43	1
Copper	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:43	1
Iron	ND	U	0.030		mg/L		11/12/19 09:32	11/19/19 20:43	1
Lead	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:43	1
Magnesium	**3.3**		0.24		mg/L		11/12/19 09:32	11/19/19 20:43	1
Manganese	**0.020**		0.010		mg/L		11/12/19 09:32	11/19/19 20:43	1
Potassium	**2.5**		0.20		mg/L		11/12/19 09:32	11/19/19 20:43	1
Sodium	**9.0**		0.40		mg/L		11/12/19 09:32	11/19/19 20:43	1
Vanadium	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:43	1
Zinc	ND	U	0.020		mg/L		11/23/19 07:00	11/23/19 13:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 01:10	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.4**				%			12/11/19 10:30	1
Calculated TDS	**71**				mg/L			12/11/19 10:30	1
TDS Ratio	**2.0**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.89**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**64**		10		mg/L			11/20/19 17:28	1
Ammonia as N	**0.029**		0.020		mg/L as N			11/18/19 15:57	1
Nitrate	ND	U	0.050		mg/L as N			11/09/19 16:09	1
Sulfate	**8.3**		5.0		mg/L			11/21/19 19:38	1
Chloride	**2.4**		0.50		mg/L			11/20/19 20:08	1
Total Dissolved Solids	**140**		5.0		mg/L			11/14/19 13:55	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 10:59	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/15/19 15:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.4**				NTU			11/08/19 12:03	1
Temperature	**7.8**				Degrees C			11/08/19 12:03	1
Field pH	**7.58**				SU			11/08/19 12:03	1
Specific Conductance	**157**				umhos/cm			11/08/19 12:03	1
Ground Water Elevation	**247.51**				ft/msl			11/08/19 12:03	1
Field EH/ORP	**-159.7**				millivolts			11/08/19 12:03	1
Oxygen, Dissolved	**0.9**				mg/L			11/08/19 12:03	1
Depth to Water from Top of Casing	**25.68**				ft			11/08/19 12:03	1

Client Sample ID: W11-5E

Date Collected: 11/08/19 11:16
Date Received: 11/09/19 10:00

Lab Sample ID: 480-162382-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**		0.0090		mg/L		11/12/19 09:32	11/19/19 20:58	1
Barium	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:58	1
Calcium	**18**		0.15		mg/L		11/12/19 09:32	11/19/19 20:58	1
Chromium	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 20:58	1
Copper	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:58	1
Iron	ND	U	0.030		mg/L		11/12/19 09:32	11/19/19 20:58	1
Lead	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 20:58	1
Magnesium	**10**		0.24		mg/L		11/12/19 09:32	11/19/19 20:58	1
Manganese	**0.12**		0.010		mg/L		11/12/19 09:32	11/19/19 20:58	1
Potassium	**1.1**		0.20		mg/L		11/12/19 09:32	11/19/19 20:58	1
Sodium	**6.3**		0.40		mg/L		11/12/19 09:32	11/19/19 20:58	1
Vanadium	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 20:58	1
Zinc	ND	U	0.020		mg/L		11/12/19 09:32	11/19/19 20:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 01:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.73**				%			12/11/19 10:30	1
Calculated TDS	**98**				mg/L			12/11/19 10:30	1
TDS Ratio	**0.86**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.44**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**100**		20		mg/L			11/20/19 17:32	2
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 15:58	1
Nitrate	ND	U	0.050		mg/L as N			11/09/19 16:10	1
Sulfate	ND	U	5.0		mg/L			11/26/19 09:46	1
Chloride	**2.1**		0.50		mg/L			11/20/19 19:14	1
Total Dissolved Solids	**84**		5.0		mg/L			11/14/19 13:57	1
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 11:15	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/15/19 15:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.6**				NTU			11/08/19 11:16	1
Temperature	**5.2**				Degrees C			11/08/19 11:16	1
Field pH	**6.92**				SU			11/08/19 11:16	1
Specific Conductance	**192**				umhos/cm			11/08/19 11:16	1
Ground Water Elevation	**258.46**				ft/msl			11/08/19 11:16	1
Field EH/ORP	**-122.3**				millivolts			11/08/19 11:16	1
Oxygen, Dissolved	**2.7**				mg/L			11/08/19 11:16	1
Depth to Water from Top of Casing	**14.82**				ft			11/08/19 11:16	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W-11-1ER

Date Collected: 11/11/19 13:28
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-1

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:04	1
Barium	**0.011**		0.0050		mg/L		11/13/19 09:24	11/16/19 19:00	1
Calcium	**14**		0.15		mg/L		11/14/19 09:43	11/15/19 00:04	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:04	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:04	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/15/19 00:04	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:04	1
Magnesium	**18**		0.24		mg/L		11/14/19 09:43	11/15/19 00:04	1
Manganese	**0.31**		0.010		mg/L		11/14/19 09:43	11/15/19 00:04	1
Potassium	**1.4**		0.20		mg/L		11/13/19 09:24	11/16/19 19:00	1
Sodium	**11**		0.40		mg/L		11/13/19 09:24	11/16/19 19:00	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:04	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:17	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			11/26/19 00:20	2
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:40	1
Nitrate	ND	U	0.050		mg/L as N			11/12/19 15:37	1
Sulfate	ND	U	5.0		mg/L			12/05/19 11:20	1
Chloride	**2.7**		0.50		mg/L			12/05/19 11:18	1
Total Dissolved Solids	**140**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 02:50	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/11/19 13:28	1
Temperature	**6.8**				Degrees C			11/11/19 13:28	1
Field pH	**7.15**				SU			11/11/19 13:28	1
Specific Conductance	**254**				umhos/cm			11/11/19 13:28	1
Ground Water Elevation	**263.60**				ft/msl			11/11/19 13:28	1
Field EH/ORP	**-86.4**				millivolts			11/11/19 13:28	1
Oxygen, Dissolved	**7.9**				mg/L			11/11/19 13:28	1
Depth to Water from Top of Casing	**8.47**				ft			11/11/19 13:28	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 1008BR2

Date Collected: 11/11/19 12:06
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-2

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:08	1
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 19:04	1
Calcium	**20**		0.15		mg/L		11/14/19 09:43	11/15/19 00:08	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:08	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:08	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/15/19 00:08	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:08	1
Magnesium	**2.2**		0.24		mg/L		11/14/19 09:43	11/15/19 00:08	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:08	1
Potassium	**1.8**		0.20		mg/L		11/13/19 09:24	11/16/19 19:04	1
Sodium	**3.7**		0.40		mg/L		11/13/19 09:24	11/16/19 19:04	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:08	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			11/25/19 23:51	1
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:41	1
Nitrate	**0.19**		0.050		mg/L as N			11/12/19 15:38	1
Sulfate	**7.2**		5.0		mg/L			12/05/19 11:10	1
Chloride	**2.1**		0.50		mg/L			12/05/19 11:14	1
Total Dissolved Solids	**83**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 03:06	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/11/19 12:06	1
Temperature	**6.9**				Degrees C			11/11/19 12:06	1
Field pH	**7.92**				SU			11/11/19 12:06	1
Specific Conductance	**152**				umhos/cm			11/11/19 12:06	1
Ground Water Elevation	**258.07**				ft/msl			11/11/19 12:06	1
Field EH/ORP	**-49.0**				millivolts			11/11/19 12:06	1
Oxygen, Dissolved	**5.8**				mg/L			11/11/19 12:06	1
Depth to Water from Top of Casing	**12.45**				ft			11/11/19 12:06	1

Client Sample ID: 1008ER2
Date Collected: 11/11/19 11:16
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-3
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:23	1
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 19:08	1
Calcium	**54**		0.15		mg/L		11/14/19 09:43	11/15/19 00:23	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:23	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:23	1
Iron	**0.16**		0.030		mg/L		11/14/19 09:43	11/15/19 00:23	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:23	1
Magnesium	**36**		0.24		mg/L		11/14/19 09:43	11/15/19 00:23	1
Manganese	**1.6**		0.010		mg/L		11/14/19 09:43	11/15/19 00:23	1
Potassium	**0.60**		0.20		mg/L		11/13/19 09:24	11/16/19 19:08	1
Sodium	**9.6**		0.40		mg/L		11/13/19 09:24	11/16/19 19:08	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:23	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:20	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**320**		40		mg/L			11/25/19 23:52	4
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:42	1
Nitrate	ND	U	0.050		mg/L as N			11/12/19 15:39	1
Sulfate	ND	U	5.0		mg/L			12/05/19 11:20	1
Chloride	**3.2**		0.50		mg/L			12/05/19 11:19	1
Total Dissolved Solids	**300**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	**2.1**		1.0		mg/L			11/16/19 03:22	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/11/19 11:16	1
Temperature	**6.4**				Degrees C			11/11/19 11:16	1
Field pH	**6.34**				SU			11/11/19 11:16	1
Specific Conductance	**556**				umhos/cm			11/11/19 11:16	1
Ground Water Elevation	**262.25**				ft/msl			11/11/19 11:16	1
Field EH/ORP	**6.0**				millivolts			11/11/19 11:16	1
Oxygen, Dissolved	**1.9**				mg/L			11/11/19 11:16	1
Depth to Water from Top of Casing	**9.25**				ft			11/11/19 11:16	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W11-2E

Date Collected: 11/11/19 14:00
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-4

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:26	1
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 19:12	1
Calcium	**15**		0.15		mg/L		11/14/19 09:43	11/15/19 00:26	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:26	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:26	1
Iron	**0.043**		0.030		mg/L		11/14/19 09:43	11/15/19 00:26	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:26	1
Magnesium	**13**		0.24		mg/L		11/14/19 09:43	11/15/19 00:26	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:26	1
Potassium	**1.1**		0.20		mg/L		11/13/19 09:24	11/16/19 19:12	1
Sodium	**11**		0.40		mg/L		11/13/19 09:24	11/16/19 19:12	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:26	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:14	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**80**		20		mg/L			11/26/19 00:20	2
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:45	1
Nitrate	ND	U	0.050		mg/L as N			11/12/19 15:46	1
Sulfate	ND	U	5.0		mg/L			12/05/19 11:21	1
Chloride	**14**		0.50		mg/L			12/05/19 11:25	1
Total Dissolved Solids	**120**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 03:37	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.2**				NTU			11/11/19 14:00	1
Temperature	**2.7**				Degrees C			11/11/19 14:00	1
Field pH	**7.73**				SU			11/11/19 14:00	1
Specific Conductance	**242**				umhos/cm			11/11/19 14:00	1
Ground Water Elevation	**261.46**				ft/msl			11/11/19 14:00	1
Field EH/ORP	**186.7**				millivolts			11/11/19 14:00	1
Oxygen, Dissolved	**6.4**				mg/L			11/11/19 14:00	1
Depth to Water from Top of Casing	**5.17**				ft			11/11/19 14:00	1

Client Sample ID: 627A

Date Collected: 11/11/19 12:51
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-5

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:30	1
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 19:15	1
Calcium	**9.6**		0.15		mg/L		11/14/19 09:43	11/15/19 00:30	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:30	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:30	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/15/19 00:30	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:30	1
Magnesium	**2.0**		0.24		mg/L		11/14/19 09:43	11/15/19 00:30	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:30	1
Potassium	**2.5**		0.20		mg/L		11/13/19 09:24	11/16/19 19:15	1
Sodium	**16**		0.40		mg/L		11/13/19 09:24	11/16/19 19:15	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:30	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**56**		10		mg/L			11/25/19 23:51	1
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:47	1
Nitrate	**0.055**		0.050		mg/L as N			11/12/19 15:50	1
Sulfate	**13**		5.0		mg/L			12/05/19 11:22	1
Chloride	**7.2**		0.50		mg/L			12/05/19 11:25	1
Total Dissolved Solids	**86**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 04:23	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.0**				NTU			11/11/19 12:51	1
Temperature	**4.1**				Degrees C			11/11/19 12:51	1
Field pH	**7.52**				SU			11/11/19 12:51	1
Specific Conductance	**157**				umhos/cm			11/11/19 12:51	1
Ground Water Elevation	**239.68**				ft/msl			11/11/19 12:51	1
Field EH/ORP	**184.2**				millivolts			11/11/19 12:51	1
Oxygen, Dissolved	**7.7**				mg/L			11/11/19 12:51	1
Depth to Water from Top of Casing	**2.31**				ft			11/11/19 12:51	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 310AW
Date Collected: 11/11/19 10:41
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-6
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:34	1
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 19:19	1
Calcium	**22**		0.15		mg/L		11/14/19 09:43	11/15/19 00:34	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:34	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:34	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/15/19 00:34	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:34	1
Magnesium	**2.4**		0.24		mg/L		11/14/19 09:43	11/15/19 00:34	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:34	1
Potassium	**2.0**		0.20		mg/L		11/13/19 09:24	11/16/19 19:19	1
Sodium	**4.1**		0.40		mg/L		11/13/19 09:24	11/16/19 19:19	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:34	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:11	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**66**		10		mg/L			11/25/19 23:51	1
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:48	1
Nitrate	**0.24**		0.050		mg/L as N			11/12/19 15:51	1
Sulfate	**6.5**		5.0		mg/L			12/05/19 11:23	1
Chloride	**5.3**		0.50		mg/L			12/05/19 11:26	1
Total Dissolved Solids	**56**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 04:38	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.4**				NTU			11/11/19 10:41	1
Temperature	**3.0**				Degrees C			11/11/19 10:41	1
Field pH	**7.53**				SU			11/11/19 10:41	1
Specific Conductance	**164**				umhos/cm			11/11/19 10:41	1
Ground Water Elevation	**270.83**				ft/msl			11/11/19 10:41	1
Field EH/ORP	**223.7**				millivolts			11/11/19 10:41	1
Oxygen, Dissolved	**12.9**				mg/L			11/11/19 10:41	1
Depth to Water from Top of Casing	**4.55**				ft			11/11/19 10:41	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W12-4E

Date Collected: 11/11/19 11:26
Date Received: 11/12/19 10:00

Lab Sample ID: 480-162477-7

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/15/19 00:38	1
Barium	**0.0075**		0.0050		mg/L		11/13/19 09:24	11/16/19 19:23	1
Calcium	**11**		0.15		mg/L		11/14/19 09:43	11/15/19 00:38	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:38	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:38	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/15/19 00:38	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/15/19 00:38	1
Magnesium	**10**		0.24		mg/L		11/14/19 09:43	11/15/19 00:38	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/15/19 00:38	1
Potassium	**0.77**		0.20		mg/L		11/13/19 09:24	11/16/19 19:23	1
Sodium	**9.9**		0.40		mg/L		11/13/19 09:24	11/16/19 19:23	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/15/19 00:38	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/15/19 00:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 23:03	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**89**		20		mg/L			11/25/19 23:07	2
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:49	1
Nitrate	**0.33**		0.050		mg/L as N			11/12/19 15:52	1
Sulfate	**8.7**		5.0		mg/L			12/05/19 11:23	1
Chloride	**0.65**		0.50		mg/L			12/05/19 11:26	1
Total Dissolved Solids	**83**		5.0		mg/L			11/15/19 12:16	1
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 04:54	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.7**				NTU			11/11/19 11:26	1
Temperature	**4.5**				Degrees C			11/11/19 11:26	1
Field pH	**6.93**				SU			11/11/19 11:26	1
Specific Conductance	**184**				umhos/cm			11/11/19 11:26	1
Ground Water Elevation	**244.94**				ft/msl			11/11/19 11:26	1
Field EH/ORP	**218.6**				millivolts			11/11/19 11:26	1
Oxygen, Dissolved	**11.9**				mg/L			11/11/19 11:26	1
Depth to Water from Top of Casing	**7.05**				ft			11/11/19 11:26	1

Client Sample ID: 106CR

Date Collected: 11/12/19 16:36
Date Received: 11/13/19 09:30

Lab Sample ID: 480-162577-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:53	11/15/19 18:49	1
Barium	**0.017**		0.0050		mg/L		11/15/19 08:53	11/15/19 18:49	1
Calcium	**75**		0.15		mg/L		11/15/19 08:53	11/15/19 18:49	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 18:49	1
Copper	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:49	1
Iron	**0.49**		0.030		mg/L		11/15/19 08:53	11/15/19 18:49	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 18:49	1
Magnesium	**11**		0.24		mg/L		11/15/19 08:53	11/15/19 18:49	1
Manganese	**0.18**		0.010		mg/L		11/15/19 08:53	11/15/19 18:49	1
Potassium	**7.2**		0.20		mg/L		11/15/19 08:53	11/15/19 18:49	1
Sodium	**7.5**		0.40		mg/L		11/15/19 08:53	11/15/19 18:49	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:49	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:53	11/15/19 18:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 22:48	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.0**				%			12/11/19 10:30	1
Calculated TDS	**230**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.1**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.50**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**210**		30		mg/L			11/26/19 03:14	3
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:27	1
Nitrate	ND	U	0.050		mg/L as N			11/13/19 18:31	1
Sulfate	**29**		5.0		mg/L			12/06/19 19:08	1
Chloride	**6.8**		0.50		mg/L			12/06/19 19:11	1
Total Dissolved Solids	**260**		5.0		mg/L			11/18/19 12:38	1
Total Organic Carbon	ND	U	1.0		mg/L			11/17/19 09:32	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**11.0**				NTU			11/12/19 16:36	1
Temperature	**9.5**				Degrees C			11/12/19 16:36	1
Field pH	**7.43**				SU			11/12/19 16:36	1
Specific Conductance	**519**				umhos/cm			11/12/19 16:36	1
Ground Water Elevation	**246.32**				ft/msl			11/12/19 16:36	1
Field EH/ORP	**-112.6**				millivolts			11/12/19 16:36	1
Oxygen, Dissolved	**1.1**				mg/L			11/12/19 16:36	1
Depth to Water from Top of Casing	**19.95**				ft			11/12/19 16:36	1

Client Sample ID: 106DR

Date Collected: 11/12/19 15:14
Date Received: 11/13/19 09:30

Lab Sample ID: 480-162577-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:53	11/15/19 18:53	1
Barium	**0.022**		0.0050		mg/L		11/15/19 08:53	11/15/19 18:53	1
Calcium	**98**		0.15		mg/L		11/15/19 08:53	11/15/19 18:53	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 18:53	1
Copper	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:53	1
Iron	ND	U	0.030		mg/L		11/15/19 08:53	11/15/19 18:53	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 18:53	1
Magnesium	**11**		0.24		mg/L		11/15/19 08:53	11/15/19 18:53	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 18:53	1
Potassium	**6.0**		0.20		mg/L		11/15/19 08:53	11/15/19 18:53	1
Sodium	**3.6**		0.40		mg/L		11/15/19 08:53	11/15/19 18:53	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:53	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:53	11/15/19 18:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 22:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.4**				%			12/11/19 10:30	1
Calculated TDS	**300**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.1**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.54**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**300**		40		mg/L			11/26/19 03:14	4
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:27	1
Nitrate	**0.068**		0.050		mg/L as N			11/13/19 20:19	1
Sulfate	**29**		5.0		mg/L			12/06/19 19:11	1
Chloride	**2.3**		0.50		mg/L			12/06/19 19:13	1
Total Dissolved Solids	**330**		5.0		mg/L			11/18/19 12:38	1
Total Organic Carbon	ND	U	1.0		mg/L			11/17/19 09:48	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/18/19 19:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.1**				NTU			11/12/19 15:14	1
Temperature	**10.1**				Degrees C			11/12/19 15:14	1
Field pH	**7.04**				SU			11/12/19 15:14	1
Specific Conductance	**607**				umhos/cm			11/12/19 15:14	1
Ground Water Elevation	**246.29**				ft/msl			11/12/19 15:14	1
Field EH/ORP	**158.6**				millivolts			11/12/19 15:14	1
Oxygen, Dissolved	**1.3**				mg/L			11/12/19 15:14	1
Depth to Water from Top of Casing	**19.86**				ft			11/12/19 15:14	1

Client Sample ID: 106WR

Date Collected: 11/12/19 13:54
Date Received: 11/13/19 09:30

Lab Sample ID: 480-162577-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:53	11/15/19 19:11	1
Barium	**0.0060**		0.0050		mg/L		11/15/19 08:53	11/15/19 19:11	1
Calcium	**47**		0.15		mg/L		11/15/19 08:53	11/15/19 19:11	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 19:11	1
Copper	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 19:11	1
Iron	**0.32**		0.030		mg/L		11/15/19 08:53	11/15/19 19:11	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 19:11	1
Magnesium	**6.1**		0.24		mg/L		11/15/19 08:53	11/15/19 19:11	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 19:11	1
Potassium	**3.0**		0.20		mg/L		11/15/19 08:53	11/15/19 19:11	1
Sodium	**2.3**		0.40		mg/L		11/15/19 08:53	11/15/19 19:11	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 19:11	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:53	11/15/19 19:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 22:34	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.4**				%			12/11/19 10:30	1
Calculated TDS	**140**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.3**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.60**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			11/26/19 03:14	2
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:28	1
Nitrate	**0.22**		0.050		mg/L as N			11/13/19 20:20	1
Sulfate	**14**		5.0		mg/L			12/06/19 19:13	1
Chloride	**0.80**		0.50		mg/L			12/06/19 20:02	1
Total Dissolved Solids	**180**		5.0		mg/L			11/18/19 12:38	1
Total Organic Carbon	**1.6**		1.0		mg/L			11/17/19 11:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/19/19 13:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**8.7**				NTU			11/12/19 13:54	1
Temperature	**11.7**				Degrees C			11/12/19 13:54	1
Field pH	**6.17**				SU			11/12/19 13:54	1
Specific Conductance	**300**				umhos/cm			11/12/19 13:54	1
Ground Water Elevation	**246.60**				ft/msl			11/12/19 13:54	1
Field EH/ORP	**171.2**				millivolts			11/12/19 13:54	1
Oxygen, Dissolved	**6.8**				mg/L			11/12/19 13:54	1
Depth to Water from Top of Casing	**19.20**				ft			11/12/19 13:54	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: DUP-GW-01

Date Collected: 11/12/19 13:54
Date Received: 11/13/19 09:30

Lab Sample ID: 480-162577-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:53	11/15/19 19:15	1
Barium	**0.0056**		0.0050		mg/L		11/15/19 08:53	11/15/19 19:15	1
Calcium	**46**		0.15		mg/L		11/15/19 08:53	11/15/19 19:15	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 19:15	1
Copper	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 19:15	1
Iron	**0.24**		0.030		mg/L		11/15/19 08:53	11/15/19 19:15	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 19:15	1
Magnesium	**6.0**		0.24		mg/L		11/15/19 08:53	11/15/19 19:15	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 19:15	1
Potassium	**2.9**		0.20		mg/L		11/15/19 08:53	11/15/19 19:15	1
Sodium	**2.3**		0.40		mg/L		11/15/19 08:53	11/15/19 19:15	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 19:15	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:53	11/15/19 19:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 22:54	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.5**				%			12/11/19 10:30	1
Calculated TDS	**140**				mg/L			12/11/19 10:30	1
TDS Ratio	**0.73**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.33**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			11/26/19 03:24	2
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:29	1
Nitrate	**0.22**		0.050		mg/L as N			11/13/19 20:24	1
Sulfate	**12**		5.0		mg/L			12/06/19 19:14	1
Chloride	**0.85**		0.50		mg/L			12/10/19 17:37	1
Total Dissolved Solids	**100**		5.0		mg/L			11/18/19 12:38	1
Total Organic Carbon	**1.3**		1.0		mg/L			11/17/19 12:01	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.6**		4.0		mg/L			11/19/19 13:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**8.7**				NTU			11/12/19 13:54	1
Temperature	**11.7**				Degrees C			11/12/19 13:54	1
Field pH	**6.17**				SU			11/12/19 13:54	1
Specific Conductance	**300**				umhos/cm			11/12/19 13:54	1
Field EH/ORP	**171.2**				millivolts			11/12/19 13:54	1
Oxygen, Dissolved	**6.8**				mg/L			11/12/19 13:54	1

Client Sample ID: 107CR

Date Collected: 11/13/19 11:15
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:49	11/15/19 18:01	1
Barium	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:01	1
Calcium	**19**		0.15		mg/L		11/15/19 08:49	11/15/19 18:01	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:01	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:01	1
Iron	ND	U	0.030		mg/L		11/15/19 08:49	11/15/19 18:01	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:01	1
Magnesium	**9.8**		0.24		mg/L		11/15/19 08:49	11/15/19 18:01	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:01	1
Potassium	**4.2**		0.20		mg/L		11/15/19 08:49	11/15/19 18:01	1
Sodium	**52**		0.40		mg/L		11/15/19 08:49	11/15/19 18:01	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:01	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:29	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.57**				%			12/11/19 10:30	1
Calculated TDS	**200**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.2**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.69**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**190**		30		mg/L			11/26/19 14:02	3
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:01	1
Nitrate	ND	U	0.050		mg/L as N			11/14/19 15:10	1
Sulfate	**15**		5.0		mg/L			11/26/19 10:30	1
Chloride	**2.2**		0.50		mg/L			11/26/19 13:53	1
Total Dissolved Solids	**240**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	ND	U	1.0		mg/L			11/20/19 21:09	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/13/19 11:15	1
Temperature	**10.5**				Degrees C			11/13/19 11:15	1
Field pH	**7.79**				SU			11/13/19 11:15	1
Specific Conductance	**346**				umhos/cm			11/13/19 11:15	1
Ground Water Elevation	**245.16**				ft/msl			11/13/19 11:15	1
Field EH/ORP	**-63.7**				millivolts			11/13/19 11:15	1
Oxygen, Dissolved	**4.7**				mg/L			11/13/19 11:15	1

Client Sample ID: 107BR

Date Collected: 11/13/19 12:02
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:49	11/15/19 18:05	1
Barium	**0.043**		0.0050		mg/L		11/15/19 08:49	11/15/19 18:05	1
Calcium	**130**		0.15		mg/L		11/15/19 08:49	11/15/19 18:05	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:05	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:05	1
Iron	**3.8**		0.030		mg/L		11/15/19 08:49	11/15/19 18:05	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:05	1
Magnesium	**12**		0.24		mg/L		11/15/19 08:49	11/15/19 18:05	1
Manganese	**2.4**		0.010		mg/L		11/15/19 08:49	11/15/19 18:05	1
Potassium	**6.9**		0.20		mg/L		11/15/19 08:49	11/15/19 18:05	1
Sodium	**7.7**		0.40		mg/L		11/15/19 08:49	11/15/19 18:05	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:05	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:43	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.23**				%			12/11/19 10:30	1
Calculated TDS	**400**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.1**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.66**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**340**		40		mg/L			11/26/19 14:35	4
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:02	1
Nitrate	ND	U	0.050		mg/L as N			11/14/19 15:12	1
Sulfate	**22**		5.0		mg/L			12/03/19 00:33	1
Chloride	**35**		0.50		mg/L			11/26/19 14:13	1
Total Dissolved Solids	**440**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	**1.8**		1.0		mg/L			11/17/19 19:31	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/13/19 12:02	1
Temperature	**9.1**				Degrees C			11/13/19 12:02	1
Field pH	**6.77**				SU			11/13/19 12:02	1
Specific Conductance	**670**				umhos/cm			11/13/19 12:02	1
Ground Water Elevation	**245.28**				ft/msl			11/13/19 12:02	1
Field EH/ORP	**-158.3**				millivolts			11/13/19 12:02	1
Oxygen, Dissolved	**0.3**				mg/L			11/13/19 12:02	1

Client Sample ID: W12-1B

Date Collected: 11/13/19 13:32
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**		0.0090		mg/L		11/15/19 08:49	11/15/19 18:09	1
Barium	**0.0054**		0.0050		mg/L		11/15/19 08:49	11/15/19 18:09	1
Calcium	**31**		0.15		mg/L		11/15/19 08:49	11/15/19 18:09	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:09	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:09	1
Iron	ND	U	0.030		mg/L		11/15/19 08:49	11/15/19 18:09	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:09	1
Magnesium	**5.7**		0.24		mg/L		11/15/19 08:49	11/15/19 18:09	1
Manganese	**0.077**		0.010		mg/L		11/15/19 08:49	11/15/19 18:09	1
Potassium	**4.4**		0.20		mg/L		11/15/19 08:49	11/15/19 18:09	1
Sodium	**3.5**		0.40		mg/L		11/15/19 08:49	11/15/19 18:09	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:09	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:45	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.6**				%			12/17/19 12:12	1
Calculated TDS	**110**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.4**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.67**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**100**		20		mg/L			11/26/19 14:35	2
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:06	1
Nitrate	ND	U	0.050		mg/L as N			11/14/19 15:13	1
Sulfate	**5.5**		5.0		mg/L			11/26/19 10:30	1
Chloride	**2.0**		0.50		mg/L			11/26/19 14:13	1
Total Dissolved Solids	**150**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	ND	U	1.0		mg/L			11/18/19 22:28	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/13/19 13:32	1
Temperature	**7.9**				Degrees C			11/13/19 13:32	1
Field pH	**8.16**				SU			11/13/19 13:32	1
Specific Conductance	**224**				umhos/cm			11/13/19 13:32	1
Ground Water Elevation	**244.92**				ft/msl			11/13/19 13:32	1
Field EH/ORP	**222.6**				millivolts			11/13/19 13:32	1
Oxygen, Dissolved	**0.3**				mg/L			11/13/19 13:32	1

Client Sample ID: DUP-GW-02

Date Collected: 11/13/19 13:32
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0090		mg/L		11/15/19 08:49	11/15/19 18:13	1
Barium	**0.0052**		0.0050		mg/L		11/15/19 08:49	11/15/19 18:13	1
Calcium	**30**		0.15		mg/L		11/15/19 08:49	11/15/19 18:13	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:13	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:13	1
Iron	ND	U	0.030		mg/L		11/15/19 08:49	11/15/19 18:13	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:13	1
Magnesium	**5.5**		0.24		mg/L		11/15/19 08:49	11/15/19 18:13	1
Manganese	**0.075**		0.010		mg/L		11/15/19 08:49	11/15/19 18:13	1
Potassium	**4.2**		0.20		mg/L		11/15/19 08:49	11/15/19 18:13	1
Sodium	**3.4**		0.40		mg/L		11/15/19 08:49	11/15/19 18:13	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:13	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:48	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.81**				%			12/17/19 12:12	1
Calculated TDS	**100**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.8**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.85**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**98**		20		mg/L			11/26/19 14:42	2
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:08	1
Nitrate	ND	U	0.050		mg/L as N			11/14/19 15:16	1
Sulfate	**11**		5.0		mg/L			11/26/19 11:31	1
Chloride	**2.0**		0.50		mg/L			11/26/19 14:13	1
Total Dissolved Solids	**190**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	ND	U	1.0		mg/L			11/18/19 22:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Client Sample ID: 310C

Date Collected: 11/13/19 15:32
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:49	11/15/19 18:16	1
Barium	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:16	1
Calcium	**24**		0.15		mg/L		11/15/19 08:49	11/15/19 18:16	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:16	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:16	1
Iron	**0.062**		0.030		mg/L		11/15/19 08:49	11/15/19 18:16	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:16	1
Magnesium	**2.3**		0.24		mg/L		11/15/19 08:49	11/15/19 18:16	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:16	1
Potassium	**2.0**		0.20		mg/L		11/15/19 08:49	11/15/19 18:16	1
Sodium	**4.0**		0.40		mg/L		11/15/19 08:49	11/15/19 18:16	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:16	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:32	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.97**				%			12/17/19 12:12	1
Calculated TDS	**77**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.1**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.54**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**66**		10		mg/L			11/26/19 14:15	1
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:08	1
Nitrate	**0.23**		0.050		mg/L as N			11/14/19 16:29	1
Sulfate	**5.6**		5.0		mg/L			11/26/19 11:31	1
Chloride	**4.7**		0.50		mg/L			11/26/19 14:13	1
Total Dissolved Solids	**86**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	ND	U	1.0		mg/L			11/18/19 23:43	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.3**				NTU			11/13/19 15:32	1
Temperature	**7.5**				Degrees C			11/13/19 15:32	1
Field pH	**8.72**				SU			11/13/19 15:32	1
Specific Conductance	**158**				umhos/cm			11/13/19 15:32	1
Ground Water Elevation	**270.68**				ft/msl			11/13/19 15:32	1
Field EH/ORP	**212.7**				millivolts			11/13/19 15:32	1
Oxygen, Dissolved	**9.2**				mg/L			11/13/19 15:32	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 310D

Date Collected: 11/13/19 15:09
Date Received: 11/14/19 10:00

Lab Sample ID: 480-162641-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:49	11/15/19 18:20	1
Barium	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:20	1
Calcium	**19**		0.15		mg/L		11/15/19 08:49	11/15/19 18:20	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:20	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:20	1
Iron	**0.043**		0.030		mg/L		11/15/19 08:49	11/15/19 18:20	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 18:20	1
Magnesium	**2.0**		0.24		mg/L		11/15/19 08:49	11/15/19 18:20	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 18:20	1
Potassium	**2.1**		0.20		mg/L		11/15/19 08:49	11/15/19 18:20	1
Sodium	**8.3**		0.40		mg/L		11/15/19 08:49	11/15/19 18:20	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 18:20	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 18:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:40	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.4**				%			12/17/19 12:12	1
Calculated TDS	**76**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.1**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.60**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**68**		10		mg/L			12/02/19 22:15	1
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:09	1
Nitrate	**0.13**		0.050		mg/L as N			11/14/19 16:30	1
Sulfate	**6.6**		5.0		mg/L			11/26/19 10:33	1
Chloride	**3.5**		0.50		mg/L			11/26/19 14:13	1
Total Dissolved Solids	**84**		5.0		mg/L			11/19/19 11:58	1
Total Organic Carbon	ND	U	1.0		mg/L			11/18/19 23:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/20/19 15:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/13/19 15:09	1
Temperature	**4.5**				Degrees C			11/13/19 15:09	1
Field pH	**7.33**				SU			11/13/19 15:09	1
Specific Conductance	**139**				umhos/cm			11/13/19 15:09	1
Ground Water Elevation	**271.07**				ft/msl			11/13/19 15:09	1
Field EH/ORP	**-15.6**				millivolts			11/13/19 15:09	1
Oxygen, Dissolved	**4.8**				mg/L			11/13/19 15:09	1

Client Sample ID: 1134B

Date Collected: 11/14/19 13:13
Date Received: 11/15/19 11:30

Lab Sample ID: 480-162730-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**		0.0090		mg/L		11/18/19 09:38	11/18/19 18:20	1
Barium	ND	U	0.0050		mg/L		11/18/19 09:38	11/18/19 18:20	1
Calcium	**5.0**		0.15		mg/L		11/18/19 09:38	11/18/19 18:20	1
Chromium	ND	U	0.010		mg/L		11/18/19 09:38	11/18/19 18:20	1
Copper	ND	U	0.025		mg/L		11/18/19 09:38	11/18/19 18:20	1
Iron	ND	U	0.030		mg/L		11/18/19 09:38	11/18/19 18:20	1
Lead	ND	U	0.0050		mg/L		11/18/19 09:38	11/18/19 18:20	1
Magnesium	**1.0**		0.24		mg/L		11/18/19 09:38	11/18/19 18:20	1
Manganese	ND	U	0.010		mg/L		11/18/19 09:38	11/18/19 18:20	1
Potassium	**1.2**		0.20		mg/L		11/18/19 09:38	11/18/19 18:20	1
Sodium	**47**		0.40		mg/L		11/18/19 09:38	11/18/19 18:20	1
Vanadium	ND	U	0.025		mg/L		11/18/19 09:38	11/18/19 18:20	1
Zinc	ND	U	0.020		mg/L		11/18/19 09:38	11/18/19 18:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/18/19 15:04	11/19/19 17:46	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-5.5**				%			12/17/19 12:12	1
Calculated TDS	**130**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.3**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.71**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		20		mg/L			11/26/19 18:16	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 10:02	1
Nitrate	ND	U	0.050		mg/L as N			11/15/19 18:38	1
Sulfate	**12**		5.0		mg/L			11/27/19 14:07	1
Chloride	**1.3**		0.50		mg/L			11/26/19 17:18	1
Total Dissolved Solids	**170**		5.0		mg/L			11/20/19 14:18	1
Total Organic Carbon	ND	U	1.0		mg/L			11/19/19 13:50	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/21/19 15:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/14/19 13:13	1
Temperature	**8.2**				Degrees C			11/14/19 13:13	1
Field pH	**9.16**				SU			11/14/19 13:13	1
Specific Conductance	**238**				umhos/cm			11/14/19 13:13	1
Ground Water Elevation	**252.09**				ft/msl			11/14/19 13:13	1
Field EH/ORP	**50.3**				millivolts			11/14/19 13:13	1
Oxygen, Dissolved	**1.7**				mg/L			11/14/19 13:13	1

Client Sample ID: W11-3E

Date Collected: 11/14/19 14:05
Date Received: 11/15/19 11:30

Lab Sample ID: 480-162730-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/18/19 09:38	11/18/19 18:23	1
Barium	**0.0083**		0.0050		mg/L		11/18/19 09:38	11/18/19 18:23	1
Calcium	**22**		0.15		mg/L		11/18/19 09:38	11/18/19 18:23	1
Chromium	ND	U	0.010		mg/L		11/18/19 09:38	11/18/19 18:23	1
Copper	ND	U	0.025		mg/L		11/18/19 09:38	11/18/19 18:23	1
Iron	**0.037**		0.030		mg/L		11/18/19 09:38	11/18/19 18:23	1
Lead	ND	U	0.0050		mg/L		11/18/19 09:38	11/18/19 18:23	1
Magnesium	**15**		0.24		mg/L		11/18/19 09:38	11/18/19 18:23	1
Manganese	**0.013**		0.010		mg/L		11/18/19 09:38	11/18/19 18:23	1
Potassium	**1.8**		0.20		mg/L		11/18/19 09:38	11/18/19 18:23	1
Sodium	**12**		0.40		mg/L		11/18/19 09:38	11/18/19 18:23	1
Vanadium	ND	U	0.025		mg/L		11/18/19 09:38	11/18/19 18:23	1
Zinc	ND	U	0.020		mg/L		11/18/19 09:38	11/18/19 18:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/18/19 15:04	11/19/19 17:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.19**				%			12/17/19 12:12	1
Calculated TDS	**140**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.0**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.47**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			11/26/19 18:16	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 08:40	1
Nitrate	**0.25**		0.050		mg/L as N			11/15/19 21:51	1
Sulfate	ND	U	5.0		mg/L			11/27/19 11:20	1
Chloride	**2.7**		0.50		mg/L			11/26/19 17:18	1
Total Dissolved Solids	**140**		5.0		mg/L			11/20/19 14:18	1
Total Organic Carbon	ND	U	1.0		mg/L			11/19/19 14:05	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/21/19 15:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/14/19 14:05	1
Temperature	**5.5**				Degrees C			11/14/19 14:05	1
Field pH	**8.09**				SU			11/14/19 14:05	1
Specific Conductance	**300**				umhos/cm			11/14/19 14:05	1
Ground Water Elevation	**257.31**				ft/msl			11/14/19 14:05	1
Field EH/ORP	**155.5**				millivolts			11/14/19 14:05	1
Oxygen, Dissolved	**14.6**				mg/L			11/14/19 14:05	1

Client Sample ID: 104C
Lab Sample ID: 480-162893-1

Date Collected: 11/18/19 11:06
Matrix: Ground Water

Date Received: 11/19/19 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**		0.0090		mg/L		11/21/19 10:18	11/30/19 17:01	1
Barium	**0.0086**		0.0050		mg/L		11/21/19 10:18	11/30/19 17:01	1
Calcium	**37**		0.15		mg/L		11/21/19 10:18	11/30/19 17:01	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:01	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:01	1
Iron	**0.37**		0.030		mg/L		11/21/19 10:18	11/30/19 17:01	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:01	1
Magnesium	**7.1**		0.24		mg/L		11/21/19 10:18	11/30/19 17:01	1
Manganese	**0.85**		0.010		mg/L		11/21/19 10:18	11/30/19 17:01	1
Potassium	**3.5**		0.20		mg/L		11/21/19 10:18	11/30/19 17:01	1
Sodium	**9.2**		0.40		mg/L		11/21/19 10:18	11/30/19 17:01	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:01	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.5**				%			12/31/19 10:21	1
Calculated TDS	**150**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.61**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.47**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			11/30/19 03:42	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:27	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:45	1
Sulfate	**14**		5.0		mg/L			11/30/19 03:37	1
Chloride	**3.4**		0.50		mg/L			11/30/19 03:42	1
Total Dissolved Solids	**89**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 02:16	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.4**				NTU			11/18/19 11:06	1
Temperature	**4.6**				Degrees C			11/18/19 11:06	1
Field pH	**8.16**				SU			11/18/19 11:06	1
Specific Conductance	**191**				umhos/cm			11/18/19 11:06	1
Ground Water Elevation	**249.98**				ft/msl			11/18/19 11:06	1
Field EH/ORP	**-64.3**				millivolts			11/18/19 11:06	1
Oxygen, Dissolved	**8.2**				mg/L			11/18/19 11:06	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 104D

Date Collected: 11/18/19 11:15
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:18	11/30/19 17:19	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:19	1
Calcium	**4.3**		0.15		mg/L		11/21/19 10:18	11/30/19 17:19	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:19	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:19	1
Iron	**0.041**		0.030		mg/L		12/06/19 10:16	12/09/19 13:04	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:19	1
Magnesium	**0.52**		0.24		mg/L		11/21/19 10:18	11/30/19 17:19	1
Manganese	**0.024**		0.010		mg/L		11/21/19 10:18	11/30/19 17:19	1
Potassium	**1.1**		0.20		mg/L		11/21/19 10:18	11/30/19 17:19	1
Sodium	**41**		0.40		mg/L		11/21/19 10:18	11/30/19 17:19	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:19	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:19	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:24	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.3**				%			12/31/19 10:21	1
Calculated TDS	**100**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.57**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.21**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**94**		10		mg/L			11/30/19 03:43	1
Ammonia as N	**0.063**		0.020		mg/L as N			11/20/19 13:29	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:47	1
Sulfate	**16**		5.0		mg/L			11/30/19 03:39	1
Chloride	**1.6**		0.50		mg/L			11/30/19 03:42	1
Total Dissolved Solids	**60**		5.0		mg/L			11/22/19 13:27	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 02:31	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/18/19 11:15	1
Temperature	**5.8**				Degrees C			11/18/19 11:15	1
Field pH	**7.62**				SU			11/18/19 11:15	1
Specific Conductance	**280**				umhos/cm			11/18/19 11:15	1
Ground Water Elevation	**250.29**				ft/msl			11/18/19 11:15	1
Field EH/ORP	**-8.3**				millivolts			11/18/19 11:15	1
Oxygen, Dissolved	**11.2**				mg/L			11/18/19 11:15	1

Client Sample ID: 617A

Date Collected: 11/18/19 12:16
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:18	11/30/19 17:23	1
Barium	**0.010**		0.0050		mg/L		11/21/19 10:18	11/30/19 17:23	1
Calcium	**20**		0.15		mg/L		11/21/19 10:18	11/30/19 17:23	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:23	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:23	1
Iron	**0.32**		0.030		mg/L		11/21/19 10:18	11/30/19 17:23	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:23	1
Magnesium	**15**		0.24		mg/L		11/21/19 10:18	11/30/19 17:23	1
Manganese	**0.051**		0.010		mg/L		11/21/19 10:18	11/30/19 17:23	1
Potassium	**2.2**		0.20		mg/L		11/21/19 10:18	11/30/19 17:23	1
Sodium	**35**		0.40		mg/L		11/21/19 10:18	11/30/19 17:23	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:23	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:27	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-6.5**				%			12/31/19 10:21	1
Calculated TDS	**180**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.71**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.92**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**180**		20		mg/L			11/30/19 03:44	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:29	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:48	1
Sulfate	**32**		5.0		mg/L			11/30/19 03:39	1
Chloride	**3.5**		0.50		mg/L			11/30/19 03:43	1
Total Dissolved Solids	**130**		5.0		mg/L			11/22/19 13:27	1
Total Organic Carbon	**1.1**		1.0		mg/L			11/21/19 02:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**24**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**11.0**				NTU			11/18/19 12:16	1
Temperature	**4.0**				Degrees C			11/18/19 12:16	1
Field pH	**6.87**				SU			11/18/19 12:16	1
Specific Conductance	**332**				umhos/cm			11/18/19 12:16	1
Ground Water Elevation	**264.94**				ft/msl			11/18/19 12:16	1
Field EH/ORP	**-55.0**				millivolts			11/18/19 12:16	1
Oxygen, Dissolved	**7.9**				mg/L			11/18/19 12:16	1

Client Sample ID: 617C

Date Collected: 11/18/19 12:59
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**		0.0090		mg/L		11/21/19 10:18	11/30/19 17:27	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:27	1
Calcium	**15**		0.15		mg/L		11/21/19 10:18	11/30/19 17:27	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:27	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:27	1
Iron	**0.26**		0.030		mg/L		11/21/19 10:18	11/30/19 17:27	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:27	1
Magnesium	**3.3**		0.24		mg/L		11/21/19 10:18	11/30/19 17:27	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:27	1
Potassium	**2.4**		0.20		mg/L		11/21/19 10:18	11/30/19 17:27	1
Sodium	**38**		0.40		mg/L		11/21/19 10:18	11/30/19 17:27	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:27	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.43**		0.25		mg/L		11/21/19 16:43	11/22/19 21:16	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.4**				%			12/31/19 10:21	1
Calculated TDS	**140**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.85**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.50**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			11/30/19 03:45	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:30	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:49	1
Sulfate	**12**		5.0		mg/L			12/01/19 08:43	1
Chloride	**3.4**		0.50		mg/L			11/30/19 03:43	1
Total Dissolved Solids	**120**		5.0		mg/L			11/22/19 13:27	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 03:02	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.4**		4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.5**				NTU			11/18/19 12:59	1
Temperature	**7.0**				Degrees C			11/18/19 12:59	1
Field pH	**7.54**				SU			11/18/19 12:59	1
Specific Conductance	**240**				umhos/cm			11/18/19 12:59	1
Ground Water Elevation	**256.82**				ft/msl			11/18/19 12:59	1
Field EH/ORP	**-141.7**				millivolts			11/18/19 12:59	1
Oxygen, Dissolved	**0.9**				mg/L			11/18/19 12:59	1

Client Sample ID: W9-1E

Date Collected: 11/18/19 13:51
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:18	11/30/19 17:41	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:41	1
Calcium	**19**		0.15		mg/L		11/21/19 10:18	11/30/19 17:41	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:41	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:41	1
Iron	ND	U	0.030		mg/L		11/21/19 10:18	11/30/19 17:41	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:41	1
Magnesium	**13**		0.24		mg/L		11/21/19 10:18	11/30/19 17:41	1
Manganese	**0.036**		0.010		mg/L		11/21/19 10:18	11/30/19 17:41	1
Potassium	**2.6**		0.20		mg/L		11/21/19 10:18	11/30/19 17:41	1
Sodium	**20**		0.40		mg/L		11/21/19 10:18	11/30/19 17:41	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:41	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:41	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:22	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-1.8**				%			12/31/19 10:21	1
Calculated TDS	**140**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.64**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.41**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**140**		20		mg/L			11/30/19 03:47	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:31	1
Nitrate	**0.43**		0.050		mg/L as N			11/19/19 21:36	1
Sulfate	**7.9**		5.0		mg/L			12/01/19 08:43	1
Chloride	**2.6**		0.50		mg/L			11/30/19 03:46	1
Total Dissolved Solids	**91**		5.0		mg/L			11/22/19 13:27	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 03:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.4**				NTU			11/18/19 13:51	1
Temperature	**5.8**				Degrees C			11/18/19 13:51	1
Field pH	**7.13**				SU			11/18/19 13:51	1
Specific Conductance	**223**				umhos/cm			11/18/19 13:51	1
Ground Water Elevation	**257.60**				ft/msl			11/18/19 13:51	1
Field EH/ORP	**-78.1**				millivolts			11/18/19 13:51	1
Oxygen, Dissolved	**8.6**				mg/L			11/18/19 13:51	1

Client Sample ID: W9-2E

Date Collected: 11/18/19 13:32
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:18	11/30/19 17:45	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:45	1
Calcium	**18**		0.15		mg/L		11/21/19 10:18	11/30/19 17:45	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:45	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:45	1
Iron	ND	U	0.030		mg/L		11/21/19 10:18	11/30/19 17:45	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:45	1
Magnesium	**15**		0.24		mg/L		11/21/19 10:18	11/30/19 17:45	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:45	1
Potassium	**1.9**		0.20		mg/L		11/21/19 10:18	11/30/19 17:45	1
Sodium	**11**		0.40		mg/L		11/21/19 10:18	11/30/19 17:45	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:45	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:11	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-0.58**				%			12/31/19 10:21	1
Calculated TDS	**130**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.59**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.30**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**130**		20		mg/L			11/30/19 03:49	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:32	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:52	1
Sulfate	ND	U	5.0		mg/L			12/03/19 15:32	1
Chloride	**3.3**		0.50		mg/L			11/30/19 03:46	1
Total Dissolved Solids	**75**		5.0		mg/L			11/22/19 13:27	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 03:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.6**				NTU			11/18/19 13:32	1
Temperature	**6.4**				Degrees C			11/18/19 13:32	1
Field pH	**7.26**				SU			11/18/19 13:32	1
Specific Conductance	**250**				umhos/cm			11/18/19 13:32	1
Ground Water Elevation	**256.97**				ft/msl			11/18/19 13:32	1
Field EH/ORP	**-93.3**				millivolts			11/18/19 13:32	1
Oxygen, Dissolved	**6.5**				mg/L			11/18/19 13:32	1

Client Sample ID: DUP-GW-03

Date Collected: 11/18/19 12:59
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.014**		0.0090		mg/L		11/21/19 10:18	11/30/19 17:49	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:49	1
Calcium	**15**		0.15		mg/L		11/21/19 10:18	11/30/19 17:49	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:49	1
Copper	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:49	1
Iron	**0.25**		0.030		mg/L		11/21/19 10:18	11/30/19 17:49	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:18	11/30/19 17:49	1
Magnesium	**3.2**		0.24		mg/L		11/21/19 10:18	11/30/19 17:49	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:18	11/30/19 17:49	1
Potassium	**2.3**		0.20		mg/L		11/21/19 10:18	11/30/19 17:49	1
Sodium	**37**		0.40		mg/L		11/21/19 10:18	11/30/19 17:49	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:18	11/30/19 17:49	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:18	11/30/19 17:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.47**		0.25		mg/L		11/21/19 16:43	11/22/19 21:19	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-15**				%			12/31/19 10:21	1
Calculated TDS	**160**				mg/L			12/31/19 10:21	1
TDS Ratio	**0.89**				NONE			12/31/19 10:21	1
TDS to Conductivity Ratio	**0.58**				NONE			12/31/19 10:21	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**160**		20		mg/L			12/01/19 09:27	2
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:33	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:53	1
Sulfate	**16**		5.0		mg/L			12/01/19 09:16	1
Chloride	**3.9**		0.50		mg/L			11/30/19 03:48	1
Total Dissolved Solids	**140**		5.0		mg/L			11/25/19 13:38	1
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 21:46	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.8**		4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**4.5**				NTU			11/18/19 12:59	1
Temperature	**7.0**				Degrees C			11/18/19 12:59	1
Field pH	**7.54**				SU			11/18/19 12:59	1
Specific Conductance	**240**				umhos/cm			11/18/19 12:59	1
Field EH/ORP	**-141.7**				millivolts			11/18/19 12:59	1
Oxygen, Dissolved	**0.9**				mg/L			11/18/19 12:59	1

Client Sample ID: 626B

Date Collected: 11/19/19 14:09
Date Received: 11/20/19 09:45

Lab Sample ID: 480-162953-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:12	11/29/19 23:34	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:34	1
Calcium	**6.7**		0.15		mg/L		11/21/19 10:12	11/29/19 23:34	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:34	1
Copper	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:34	1
Iron	ND	U	0.030		mg/L		11/21/19 10:12	11/29/19 23:34	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:34	1
Magnesium	**1.3**		0.24		mg/L		11/21/19 10:12	11/29/19 23:34	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:34	1
Potassium	**1.7**		0.20		mg/L		11/21/19 10:12	11/29/19 23:34	1
Sodium	**1.3**		0.40		mg/L		11/21/19 10:12	11/29/19 23:34	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:34	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:12	11/29/19 23:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 20:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.6**				%			12/11/19 10:30	1
Calculated TDS	**27**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.5**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.67**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**22**		10		mg/L			12/03/19 20:22	1
Ammonia as N	ND	U	0.020		mg/L as N			11/21/19 11:01	1
Nitrate	ND	U	0.050		mg/L as N			11/20/19 13:51	1
Sulfate	ND	U	5.0		mg/L			12/03/19 01:52	1
Chloride	**3.0**		0.50		mg/L			12/03/19 21:44	1
Total Dissolved Solids	**40**		5.0		mg/L			11/25/19 13:33	1
Total Organic Carbon	**1.0**		1.0		mg/L			11/22/19 06:42	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/19/19 14:09	1
Temperature	**9.9**				Degrees C			11/19/19 14:09	1
Field pH	**5.98**				SU			11/19/19 14:09	1
Specific Conductance	**60**				umhos/cm			11/19/19 14:09	1
Ground Water Elevation	**244.45**				ft/msl			11/19/19 14:09	1
Field EH/ORP	**-106.5**				millivolts			11/19/19 14:09	1
Oxygen, Dissolved	**3.5**				mg/L			11/19/19 14:09	1
Depth to Water from Top of Casing	**12.53**				ft			11/19/19 14:09	1

Client Sample ID: 628A

Date Collected: 11/19/19 11:44
Date Received: 11/20/19 09:45

Lab Sample ID: 480-162953-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:12	11/29/19 23:57	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:57	1
Calcium	**15**		0.15		mg/L		11/21/19 10:12	11/29/19 23:57	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:57	1
Copper	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:57	1
Iron	ND	U	0.030		mg/L		11/21/19 10:12	11/29/19 23:57	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:57	1
Magnesium	**4.2**		0.24		mg/L		11/21/19 10:12	11/29/19 23:57	1
Manganese	**0.014**		0.010		mg/L		11/21/19 10:12	11/29/19 23:57	1
Potassium	**3.1**		0.20		mg/L		11/21/19 10:12	11/29/19 23:57	1
Sodium	**15**		0.40		mg/L		11/21/19 10:12	11/29/19 23:57	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:57	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:12	11/29/19 23:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:00	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-20**				%			12/11/19 10:30	1
Calculated TDS	**110**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.5**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.30**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			12/03/19 20:23	2
Ammonia as N	ND	U	0.020		mg/L as N			11/21/19 11:02	1
Nitrate	**0.93**		0.050		mg/L as N			11/20/19 15:39	1
Sulfate	**20**		5.0		mg/L			12/03/19 01:52	1
Chloride	**2.5**		0.50		mg/L			12/03/19 01:55	1
Total Dissolved Solids	**160**		5.0		mg/L			11/25/19 13:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 06:57	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**10.6**				NTU			11/19/19 11:44	1
Temperature	**14.0**				Degrees C			11/19/19 11:44	1
Field pH	**7.46**				SU			11/19/19 11:44	1
Specific Conductance	**536**				umhos/cm			11/19/19 11:44	1
Ground Water Elevation	**239.72**				ft/msl			11/19/19 11:44	1
Field EH/ORP	**-122.2**				millivolts			11/19/19 11:44	1
Oxygen, Dissolved	**5.4**				mg/L			11/19/19 11:44	1
Depth to Water from Top of Casing	**2.47**				ft			11/19/19 11:44	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: TRANS

Date Collected: 11/19/19 12:35
Date Received: 11/20/19 09:45

Lab Sample ID: 480-162953-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:12	11/29/19 23:53	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:53	1
Calcium	**12**		0.15		mg/L		11/21/19 10:12	11/29/19 23:53	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:53	1
Copper	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:53	1
Iron	**0.048**		0.030		mg/L		11/21/19 10:12	11/29/19 23:53	1
Magnesium	**2.2**		0.24		mg/L		11/21/19 10:12	11/29/19 23:53	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:53	1
Potassium	**1.9**		0.20		mg/L		11/21/19 10:12	11/29/19 23:53	1
Sodium	**16**		0.40		mg/L		11/21/19 10:12	11/29/19 23:53	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:53	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:12	11/29/19 23:53	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 21:08	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.4**				%			12/11/19 10:30	1
Calculated TDS	**72**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.5**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.75**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**62**		10		mg/L			12/02/19 22:04	1
Ammonia as N	ND	U	0.020		mg/L as N			11/21/19 11:02	1
Nitrate	**0.10**		0.050		mg/L as N			11/20/19 15:42	1
Nitrite	ND	U	0.050		mg/L as N			11/20/19 15:40	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/04/19 17:37	1
Sulfate	**8.1**		5.0		mg/L			12/03/19 22:51	1
Chloride	**2.5**		0.50		mg/L			12/03/19 01:57	1
Total Dissolved Solids	**110**		5.0		mg/L			11/25/19 13:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 07:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:28	1

Method: SM 9223B - Coliforms, Total, and E.Coli

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Coliform	**Present**		1		CFU/100mL			11/20/19 20:40	1
E. Coli	**Absent**		1		CFU/100mL			11/20/19 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/19/19 12:35	1
Temperature	**9.5**				Degrees C			11/19/19 12:35	1
Field pH	**7.52**				SU			11/19/19 12:35	1
Specific Conductance	**146**				umhos/cm			11/19/19 12:35	1
Field EH/ORP	**-142.3**				millivolts			11/19/19 12:35	1
Oxygen, Dissolved	**3.7**				mg/L			11/19/19 12:35	1

Client Sample ID: W11-6E

Date Collected: 11/19/19 12:12
Date Received: 11/20/19 09:45

Lab Sample ID: 480-162953-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:12	11/29/19 23:38	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:38	1
Calcium	**22**		0.15		mg/L		11/21/19 10:12	11/29/19 23:38	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 23:38	1
Copper	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:38	1
Iron	ND	U	0.030		mg/L		11/21/19 10:12	11/29/19 23:38	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 23:38	1
Magnesium	**18**		0.24		mg/L		11/21/19 10:12	11/29/19 23:38	1
Manganese	**0.017**		0.010		mg/L		11/21/19 10:12	11/29/19 23:38	1
Potassium	**1.5**		0.20		mg/L		11/21/19 10:12	11/29/19 23:38	1
Sodium	**9.1**		0.40		mg/L		11/21/19 10:12	11/29/19 23:38	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 23:38	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:12	11/29/19 23:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 20:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**26**				%			12/11/19 10:30	1
Calculated TDS	**92**				mg/L			12/11/19 10:30	1
TDS Ratio	**1.4**				NONE			12/11/19 10:30	1
TDS to Conductivity Ratio	**0.97**				NONE			12/11/19 10:30	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**65**		20		mg/L			12/02/19 22:40	2
Ammonia as N	ND	U	0.020		mg/L as N			11/21/19 11:03	1
Nitrate	ND	U	0.050		mg/L as N			11/20/19 13:57	1
Sulfate	**19**		5.0		mg/L			12/03/19 01:57	1
Chloride	**2.5**		0.50		mg/L			12/03/19 01:59	1
Total Dissolved Solids	**130**		5.0		mg/L			11/25/19 13:33	1
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 07:28	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/25/19 15:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/19/19 12:12	1
Temperature	**13.3**				Degrees C			11/19/19 12:12	1
Field pH	**6.60**				SU			11/19/19 12:12	1
Specific Conductance	**134**				umhos/cm			11/19/19 12:12	1
Ground Water Elevation	**229.11**				ft/msl			11/19/19 12:12	1
Field EH/ORP	**-150.1**				millivolts			11/19/19 12:12	1
Oxygen, Dissolved	**3.3**				mg/L			11/19/19 12:12	1
Depth to Water from Top of Casing	**16.02**				ft			11/19/19 12:12	1

Client Sample ID: W12-4B

Date Collected: 11/20/19 14:12
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163033-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**		0.0090		mg/L		11/23/19 10:37	11/26/19 08:08	1
Barium	ND	U	0.0050		mg/L		11/23/19 10:37	11/26/19 08:08	1
Calcium	**17**		0.15		mg/L		11/23/19 10:37	11/26/19 08:08	1
Chromium	ND	U	0.010		mg/L		11/23/19 10:37	11/26/19 08:08	1
Copper	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 08:08	1
Iron	ND	U	0.030		mg/L		11/23/19 10:37	11/26/19 08:08	1
Lead	ND	U	0.0050		mg/L		11/23/19 10:37	11/26/19 08:08	1
Magnesium	**3.3**		0.24		mg/L		11/23/19 10:37	11/26/19 08:08	1
Manganese	**0.029**		0.010		mg/L		11/23/19 10:37	11/26/19 08:08	1
Potassium	**3.6**	**BL**	0.20		mg/L		11/23/19 10:37	11/26/19 08:08	1
Sodium	**11**		0.40		mg/L		11/23/19 10:37	11/26/19 08:08	1
Vanadium	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 08:08	1
Zinc	ND	U	0.020		mg/L		11/23/19 10:37	11/26/19 08:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/25/19 09:09	11/25/19 17:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**4.6**				%			12/17/19 12:12	1
Calculated TDS	**78**				mg/L			12/17/19 12:12	1
TDS Ratio	**1.9**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.95**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**69**		20		mg/L			12/03/19 18:43	2
Ammonia as N	ND	U	0.020		mg/L as N			11/22/19 09:34	1
Nitrate	ND	U	0.050		mg/L as N			11/21/19 17:59	1
Sulfate	**5.7**		5.0		mg/L			12/03/19 19:42	1
Chloride	**1.6**		0.50		mg/L			12/03/19 20:07	1
Total Dissolved Solids	**150**		5.0		mg/L			11/26/19 13:50	1
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 22:01	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/26/19 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			11/20/19 14:12	1
Temperature	**11.4**				Degrees C			11/20/19 14:12	1
Field pH	**8.15**				SU			11/20/19 14:12	1
Specific Conductance	**158**				umhos/cm			11/20/19 14:12	1
Ground Water Elevation	**234.43**				ft/msl			11/20/19 14:12	1
Field EH/ORP	**-125.2**				millivolts			11/20/19 14:12	1
Oxygen, Dissolved	**0.4**				mg/L			11/20/19 14:12	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W12-3E

Date Collected: 11/20/19 12:55
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163033-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/23/19 10:37	11/26/19 08:12	1
Barium	**0.0052**		0.0050		mg/L		11/23/19 10:37	11/26/19 08:12	1
Calcium	**35**		0.15		mg/L		11/23/19 10:37	11/26/19 08:12	1
Chromium	ND	U	0.010		mg/L		11/23/19 10:37	11/26/19 08:12	1
Copper	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 08:12	1
Iron	ND	U	0.030		mg/L		11/23/19 10:37	11/26/19 08:12	1
Lead	ND	U	0.0050		mg/L		11/23/19 10:37	11/26/19 08:12	1
Magnesium	**18**		0.24		mg/L		11/23/19 10:37	11/26/19 08:12	1
Manganese	ND	U	0.010		mg/L		11/23/19 10:37	11/26/19 08:12	1
Potassium	**1.6**	**BL**	0.20		mg/L		11/23/19 10:37	11/26/19 08:12	1
Sodium	**7.7**		0.40		mg/L		11/23/19 10:37	11/26/19 08:12	1
Vanadium	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 08:12	1
Zinc	ND	U	0.020		mg/L		11/23/19 10:37	11/26/19 08:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/25/19 09:09	11/25/19 17:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-6.7**				%			12/17/19 12:12	1
Calculated TDS	**190**				mg/L			12/17/19 12:12	1
TDS Ratio	**0.92**				NONE			12/17/19 12:12	1
TDS to Conductivity Ratio	**0.48**				NONE			12/17/19 12:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**200**		20		mg/L			12/03/19 19:18	2
Ammonia as N	ND	U	0.020		mg/L as N			11/22/19 09:35	1
Nitrate	**1.0**		0.050		mg/L as N			11/21/19 22:45	1
Sulfate	ND	U	5.0		mg/L			12/03/19 19:44	1
Chloride	**2.0**		0.50		mg/L			12/03/19 19:48	1
Total Dissolved Solids	**170**		5.0		mg/L			11/26/19 13:50	1
Total Organic Carbon	**1.2**		1.0		mg/L			11/22/19 16:12	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/26/19 15:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.2**				NTU			11/20/19 12:55	1
Temperature	**6.4**				Degrees C			11/20/19 12:55	1
Field pH	**7.12**				SU			11/20/19 12:55	1
Specific Conductance	**358**				umhos/cm			11/20/19 12:55	1
Ground Water Elevation	**240.72**				ft/msl			11/20/19 12:55	1
Field EH/ORP	**51.1**				millivolts			11/20/19 12:55	1
Oxygen, Dissolved	**9.7**				mg/L			11/20/19 12:55	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W12-1E

Date Collected: 11/25/19 12:23
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163285-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/27/19 09:55	11/29/19 14:02	1
Barium	**0.024**		0.0050		mg/L		11/27/19 09:55	11/29/19 14:02	1
Calcium	**4.7**		0.15		mg/L		11/27/19 09:55	11/29/19 14:02	1
Chromium	ND	U	0.010		mg/L		11/27/19 09:55	11/29/19 14:02	1
Copper	ND	U	0.025		mg/L		11/27/19 09:55	11/29/19 14:02	1
Iron	**3.7**		0.030		mg/L		11/27/19 09:55	11/29/19 14:02	1
Lead	ND	U	0.0050		mg/L		12/06/19 05:57	12/06/19 15:35	1
Magnesium	**6.2**		0.24		mg/L		11/27/19 09:55	11/29/19 14:02	1
Manganese	**0.060**		0.010		mg/L		11/27/19 09:55	11/29/19 14:02	1
Potassium	**1.5**		0.20		mg/L		11/27/19 09:55	11/29/19 14:02	1
Sodium	**8.8**		0.40		mg/L		11/27/19 09:55	11/29/19 14:02	1
Vanadium	ND	U	0.025		mg/L		11/27/19 09:55	11/29/19 14:02	1
Zinc	ND	U	0.020		mg/L		11/27/19 09:55	11/29/19 14:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.7**		0.25		mg/L		12/03/19 12:20	12/04/19 14:27	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**12**				%			12/18/19 09:43	1
Calculated TDS	**45**				mg/L			12/18/19 09:43	1
TDS Ratio	**3.7**				NONE			12/18/19 09:43	1
TDS to Conductivity Ratio	**0.59**				NONE			12/18/19 09:43	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**30**		10		mg/L			12/05/19 15:12	1
Ammonia as N	ND	U	0.020		mg/L as N			11/27/19 09:30	1
Nitrate	ND	U	0.050		mg/L as N			11/26/19 18:27	1
Sulfate	**19**		5.0		mg/L			12/06/19 20:40	1
Chloride	**2.5**		0.50		mg/L			12/05/19 17:14	1
Total Dissolved Solids	**170**		5.0		mg/L			12/02/19 12:13	1
Total Organic Carbon	**1.0**		1.0		mg/L			11/29/19 18:16	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	5.2		mg/L			11/29/19 13:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**61.1**				NTU			11/25/19 12:23	1
Temperature	**10.4**				Degrees C			11/25/19 12:23	1
Field pH	**6.86**				SU			11/25/19 12:23	1
Specific Conductance	**335**				umhos/cm			11/25/19 12:23	1
Ground Water Elevation	**254.38**				ft/msl			11/25/19 12:23	1
Field EH/ORP	**-69.6**				millivolts			11/25/19 12:23	1
Oxygen, Dissolved	**12.6**				mg/L			11/25/19 12:23	1

Client Sample ID: 1040B

Date Collected: 12/10/19 14:29
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-1

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/18/19 00:48	1
Barium	**0.0089**		0.0050		mg/L		12/13/19 08:20	12/18/19 00:48	1
Calcium	**21**		0.15		mg/L		12/13/19 08:20	12/18/19 00:48	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 00:48	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:48	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 00:48	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 00:48	1
Magnesium	**7.2**		0.24		mg/L		12/13/19 08:20	12/18/19 00:48	1
Manganese	**0.096**		0.010		mg/L		12/13/19 08:20	12/18/19 00:48	1
Potassium	**2.6**		0.20		mg/L		12/13/19 08:20	12/18/19 00:48	1
Sodium	**5.4**		0.40		mg/L		12/13/19 08:20	12/18/19 00:48	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:48	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 00:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 18:59	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-5.9**				%			01/14/20 11:13	1
Calculated TDS	**91**				mg/L			01/14/20 11:13	1
TDS Ratio	**0.97**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.59**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**88**		10		mg/L			12/18/19 16:08	1
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 15:44	1
Nitrate	**0.26**		0.050		mg/L as N			12/11/19 18:04	1
Sulfate	**17**		5.0		mg/L			12/18/19 13:38	1
Chloride	**2.0**		0.50		mg/L			12/18/19 16:02	1
Total Dissolved Solids	**89**		5.0		mg/L			12/13/19 14:46	1
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 10:34	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/16/19 20:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.0**				NTU			12/10/19 14:29	1
Temperature	**9.3**				Degrees C			12/10/19 14:29	1
Field pH	**6.20**				SU			12/10/19 14:29	1
Specific Conductance	**150**				umhos/cm			12/10/19 14:29	1
Ground Water Elevation	**242.31**				ft/msl			12/10/19 14:29	1
Field EH/ORP	**-114.9**				millivolts			12/10/19 14:29	1
Oxygen, Dissolved	**10.8**				mg/L			12/10/19 14:29	1
Purge Rate	**6.3**				L/min			12/10/19 14:29	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 1041B

Date Collected: 12/10/19 12:40
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/18/19 00:52	1
Barium	**0.041**		0.0050		mg/L		12/13/19 08:20	12/18/19 00:52	1
Calcium	**44**		0.15		mg/L		12/13/19 08:20	12/18/19 00:52	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 00:52	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:52	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 00:52	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 00:52	1
Magnesium	**15**		0.24		mg/L		12/13/19 08:20	12/18/19 00:52	1
Manganese	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 00:52	1
Potassium	**27**		0.20		mg/L		12/13/19 08:20	12/18/19 00:52	1
Sodium	**8.3**		0.40		mg/L		12/13/19 08:20	12/18/19 00:52	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:52	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 00:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/27/19 13:22	12/30/19 12:40	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**9.9**				%			01/14/20 11:13	1
Calculated TDS	**170**				mg/L			01/14/20 11:13	1
TDS Ratio	**1.0**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.37**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		30		mg/L			12/18/19 15:52	3
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 14:40	1
Nitrate	**0.077**		0.050		mg/L as N			12/11/19 18:07	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/18/19 17:02	1
Sulfate	**63**		10		mg/L			12/18/19 13:40	2
Chloride	**5.7**		0.50		mg/L			12/18/19 16:02	1
Total Dissolved Solids	**170**		5.0		mg/L			12/14/19 13:53	1
Total Organic Carbon	**1.6**		1.0		mg/L			12/13/19 10:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/16/19 20:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.9**				NTU			12/10/19 12:40	1
Temperature	**9.3**				Degrees C			12/10/19 12:40	1
Field pH	**5.83**				SU			12/10/19 12:40	1
Specific Conductance	**456**				umhos/cm			12/10/19 12:40	1
Field EH/ORP	**-89.3**				millivolts			12/10/19 12:40	1
Oxygen, Dissolved	**4.5**				mg/L			12/10/19 12:40	1
Purge Rate	**4.0**				L/min			12/10/19 12:40	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 618AR

Date Collected: 12/10/19 10:58
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-3

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/18/19 00:56	1
Barium	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 00:56	1
Calcium	**41**		0.15		mg/L		12/13/19 08:20	12/18/19 00:56	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 00:56	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:56	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 00:56	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 00:56	1
Magnesium	**46**		0.24		mg/L		12/13/19 08:20	12/18/19 00:56	1
Manganese	**0.030**		0.010		mg/L		12/13/19 08:20	12/18/19 00:56	1
Potassium	**2.2**		0.20		mg/L		12/13/19 08:20	12/18/19 00:56	1
Sodium	**20**		0.40		mg/L		12/13/19 08:20	12/18/19 00:56	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 00:56	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 00:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 18:33	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.27**				%			01/14/20 11:13	1
Calculated TDS	**310**				mg/L			01/14/20 11:13	1
TDS Ratio	**0.98**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.47**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**320**		40		mg/L			12/18/19 16:26	4
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 14:41	1
Nitrate	ND	U	0.050		mg/L as N			12/11/19 18:10	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/18/19 17:02	1
Sulfate	**8.3**		5.0		mg/L			12/18/19 13:40	1
Chloride	**5.5**		0.50		mg/L			12/18/19 16:02	1
Total Dissolved Solids	**300**		5.0		mg/L			12/14/19 13:53	1
Total Organic Carbon	**2.7**		1.0		mg/L			12/13/19 11:04	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			12/10/19 10:58	1
Temperature	**8.0**				Degrees C			12/10/19 10:58	1
Field pH	**7.18**				SU			12/10/19 10:58	1
Specific Conductance	**637**				umhos/cm			12/10/19 10:58	1
Ground Water Elevation	**257.14**				ft/msl			12/10/19 10:58	1
Field EH/ORP	**71.8**				millivolts			12/10/19 10:58	1
Oxygen, Dissolved	**10.0**				mg/L			12/10/19 10:58	1
Purge Rate	**0.1**				L/min			12/10/19 10:58	1

Client Sample ID: 618CR

Date Collected: 12/10/19 11:47
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-4

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**		0.0090		mg/L		12/13/19 08:20	12/18/19 01:10	1
Barium	**0.028**		0.0050		mg/L		12/13/19 08:20	12/18/19 01:10	1
Calcium	**14**		0.15		mg/L		12/13/19 08:20	12/18/19 01:10	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:10	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:10	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 01:10	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:10	1
Magnesium	**2.8**		0.24		mg/L		12/13/19 08:20	12/18/19 01:10	1
Manganese	**0.021**		0.010		mg/L		12/13/19 08:20	12/18/19 01:10	1
Potassium	**2.4**		0.20		mg/L		12/13/19 08:20	12/18/19 01:10	1
Sodium	**13**		0.40		mg/L		12/13/19 08:20	12/18/19 01:10	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:10	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 01:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 18:55	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.4**				%			01/14/20 11:13	1
Calculated TDS	**75**				mg/L			01/14/20 11:13	1
TDS Ratio	**0.61**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.28**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**70**		10		mg/L			12/18/19 16:08	1
Ammonia as N	**0.030**		0.020		mg/L as N			12/12/19 14:42	1
Nitrate	**0.055**		0.050		mg/L as N			12/11/19 18:11	1
Sulfate	**13**		5.0		mg/L			12/18/19 14:22	1
Chloride	**1.0**		0.50		mg/L			12/20/19 18:12	1
Total Dissolved Solids	**46**		5.0		mg/L			12/14/19 13:53	1
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 11:49	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			12/10/19 11:47	1
Temperature	**9.3**				Degrees C			12/10/19 11:47	1
Field pH	**8.45**				SU			12/10/19 11:47	1
Specific Conductance	**162**				umhos/cm			12/10/19 11:47	1
Ground Water Elevation	**252.78**				ft/msl			12/10/19 11:47	1
Field EH/ORP	**-63.8**				millivolts			12/10/19 11:47	1
Oxygen, Dissolved	**1.2**				mg/L			12/10/19 11:47	1
Purge Rate	**14.0**				L/min			12/10/19 11:47	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: 624B

Date Collected: 12/10/19 13:20
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-5

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/18/19 01:14	1
Barium	**0.025**		0.0050		mg/L		12/13/19 08:20	12/18/19 01:14	1
Calcium	**94**		0.15		mg/L		12/13/19 08:20	12/18/19 01:14	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:14	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:14	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 01:14	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:14	1
Magnesium	**15**		0.24		mg/L		12/13/19 08:20	12/18/19 01:14	1
Manganese	**1.9**		0.010		mg/L		12/13/19 08:20	12/18/19 01:14	1
Potassium	**5.1**		0.20		mg/L		12/13/19 08:20	12/18/19 01:14	1
Sodium	**3.1**		0.40		mg/L		12/13/19 08:20	12/18/19 01:14	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:14	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 01:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 19:59	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-27**				%			01/14/20 11:13	1
Calculated TDS	**340**				mg/L			01/14/20 11:13	1
TDS Ratio	**1.0**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.50**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**390**		40		mg/L			12/18/19 17:00	4
Ammonia as N	**0.031**		0.020		mg/L as N			12/12/19 14:43	1
Nitrate	ND	U	0.050		mg/L as N			12/11/19 18:12	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/18/19 17:02	1
Sulfate	**32**		5.0		mg/L			12/18/19 14:22	1
Chloride	**2.5**		0.50		mg/L			12/18/19 16:04	1
Total Dissolved Solids	**340**		5.0		mg/L			12/14/19 13:53	1
Total Organic Carbon	**2.1**		1.0		mg/L			12/13/19 12:04	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.6**				NTU			12/10/19 13:20	1
Temperature	**9.6**				Degrees C			12/10/19 13:20	1
Field pH	**6.37**				SU			12/10/19 13:20	1
Specific Conductance	**687**				umhos/cm			12/10/19 13:20	1
Ground Water Elevation	**242.32**				ft/msl			12/10/19 13:20	1
Field EH/ORP	**-167.4**				millivolts			12/10/19 13:20	1
Oxygen, Dissolved	**0.4**				mg/L			12/10/19 13:20	1
Purge Rate	**11.3**				L/min			12/10/19 13:20	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: DUP-GW-04

Date Collected: 12/10/19 11:05
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-6

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.029**		0.0090		mg/L		12/13/19 08:20	12/18/19 01:18	1
Barium	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:18	1
Calcium	**14**		0.15		mg/L		12/13/19 08:20	12/18/19 01:18	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:18	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:18	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 01:18	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:18	1
Magnesium	**5.8**		0.24		mg/L		12/13/19 08:20	12/18/19 01:18	1
Manganese	**0.018**		0.010		mg/L		12/13/19 08:20	12/18/19 01:18	1
Potassium	**1.6**		0.20		mg/L		12/13/19 08:20	12/18/19 01:18	1
Sodium	**7.8**		0.40		mg/L		12/13/19 08:20	12/18/19 01:18	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:18	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 01:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 19:10	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-2.5**				%			01/14/20 11:13	1
Calculated TDS	**78**				mg/L			01/14/20 11:13	1
TDS Ratio	**0.19**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.098**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**81**		10		mg/L			12/18/19 16:08	1
Ammonia as N	**0.061**		0.020		mg/L as N			12/12/19 14:45	1
Nitrate	ND	U	0.050		mg/L as N			12/11/19 18:13	1
Sulfate	ND	U	5.0		mg/L			12/18/19 14:23	1
Chloride	**0.64**		0.50		mg/L			12/18/19 16:07	1
Total Dissolved Solids	**15**		5.0		mg/L			12/16/19 13:36	1
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 12:18	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.1**				NTU			12/10/19 11:05	1
Temperature	**9.0**				Degrees C			12/10/19 11:05	1
Field pH	**7.21**				SU			12/10/19 11:05	1
Specific Conductance	**153**				umhos/cm			12/10/19 11:05	1
Field EH/ORP	**-195.0**				millivolts			12/10/19 11:05	1
Oxygen, Dissolved	**1.3**				mg/L			12/10/19 11:05	1
Purge Rate	**12.6**				L/min			12/10/19 11:05	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W11-1B

Date Collected: 12/10/19 11:05
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-7

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**		0.0090		mg/L		12/13/19 08:20	12/18/19 01:22	1
Barium	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:22	1
Calcium	**14**		0.15		mg/L		12/13/19 08:20	12/18/19 01:22	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:22	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:22	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/18/19 01:22	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:22	1
Magnesium	**5.8**		0.24		mg/L		12/13/19 08:20	12/18/19 01:22	1
Manganese	**0.017**		0.010		mg/L		12/13/19 08:20	12/18/19 01:22	1
Potassium	**1.6**		0.20		mg/L		12/13/19 08:20	12/18/19 01:22	1
Sodium	**7.8**		0.40		mg/L		12/13/19 08:20	12/18/19 01:22	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:22	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 01:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 19:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**0.75**				%			01/14/20 11:13	1
Calculated TDS	**75**				mg/L			01/14/20 11:13	1
TDS Ratio	**1.2**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.60**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**76**		10		mg/L			12/18/19 16:35	1
Ammonia as N	**0.069**		0.020		mg/L as N			12/12/19 14:48	1
Nitrate	ND	U	0.050		mg/L as N			12/11/19 18:14	1
Sulfate	ND	U	5.0		mg/L			12/18/19 14:23	1
Chloride	**0.53**		0.50		mg/L			12/18/19 16:07	1
Total Dissolved Solids	**92**		5.0		mg/L			12/13/19 14:46	1
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 12:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.1**				NTU			12/10/19 11:05	1
Temperature	**9.0**				Degrees C			12/10/19 11:05	1
Field pH	**7.21**				SU			12/10/19 11:05	1
Specific Conductance	**153**				umhos/cm			12/10/19 11:05	1
Ground Water Elevation	**252.05**				ft/msl			12/10/19 11:05	1
Field EH/ORP	**-195.0**				millivolts			12/10/19 11:05	1
Oxygen, Dissolved	**1.3**				mg/L			12/10/19 11:05	1
Purge Rate	**12.6**				L/min			12/10/19 11:05	1

Client Sample ID: W12-5E

Date Collected: 12/10/19 13:37
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163965-8

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/18/19 01:25	1
Barium	**0.0096**		0.0050		mg/L		12/13/19 08:20	12/18/19 01:25	1
Calcium	**59**		0.15		mg/L		12/13/19 08:20	12/18/19 01:25	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:25	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:25	1
Iron	**0.038**		0.030		mg/L		12/13/19 08:20	12/18/19 01:25	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/18/19 01:25	1
Magnesium	**6.0**		0.24		mg/L		12/13/19 08:20	12/18/19 01:25	1
Manganese	ND	U	0.010		mg/L		12/13/19 08:20	12/18/19 01:25	1
Potassium	**4.9**		0.20		mg/L		12/13/19 08:20	12/18/19 01:25	1
Sodium	**1.6**		0.40		mg/L		12/13/19 08:20	12/18/19 01:25	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/18/19 01:25	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/18/19 01:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 18:51	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**1.8**				%			01/14/20 11:13	1
Calculated TDS	**180**				mg/L			01/14/20 11:13	1
TDS Ratio	**0.97**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**0.48**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**170**		20		mg/L			12/18/19 15:53	2
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 14:49	1
Nitrate	**1.3**		0.050		mg/L as N			12/11/19 18:15	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/18/19 17:02	1
Sulfate	ND	U	5.0		mg/L			12/18/19 14:23	1
Chloride	**0.55**		0.50		mg/L			12/18/19 16:07	1
Total Dissolved Solids	**170**		5.0		mg/L			12/13/19 14:46	1
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 12:47	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			12/17/19 14:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.0**				NTU			12/10/19 13:37	1
Temperature	**9.6**				Degrees C			12/10/19 13:37	1
Field pH	**7.13**				SU			12/10/19 13:37	1
Specific Conductance	**353**				umhos/cm			12/10/19 13:37	1
Ground Water Elevation	**250.74**				ft/msl			12/10/19 13:37	1
Field EH/ORP	**55.4**				millivolts			12/10/19 13:37	1
Oxygen, Dissolved	**2.2**				mg/L			12/10/19 13:37	1
Purge Rate	**12.0**				L/min			12/10/19 13:37	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Client Sample ID: W12-2E

Date Collected: 12/19/19 11:08
Date Received: 12/20/19 10:00

Lab Sample ID: 480-164496-2

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0090		mg/L		12/24/19 09:27	12/24/19 18:13	1
Barium	**0.0091**		0.0050		mg/L		12/24/19 09:27	12/24/19 18:13	1
Calcium	**0.80**		0.15		mg/L		12/24/19 09:27	12/24/19 18:13	1
Chromium	ND		0.010		mg/L		12/24/19 09:27	12/24/19 18:13	1
Copper	ND		0.025		mg/L		12/24/19 09:27	12/24/19 18:13	1
Iron	**0.083**		0.030		mg/L		12/24/19 09:27	12/24/19 18:13	1
Lead	ND		0.0050		mg/L		12/24/19 09:27	12/24/19 18:13	1
Magnesium	**0.49**		0.24		mg/L		12/24/19 09:27	12/24/19 18:13	1
Manganese	ND		0.010		mg/L		12/24/19 09:27	12/24/19 18:13	1
Potassium	**0.40**		0.20		mg/L		12/24/19 09:27	12/24/19 18:13	1
Sodium	**1.3**		0.40		mg/L		12/24/19 09:27	12/24/19 18:13	1
Vanadium	ND		0.025		mg/L		12/24/19 09:27	12/24/19 18:13	1
Zinc	ND		0.020		mg/L		12/24/19 09:27	12/24/19 18:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		01/09/20 10:43	01/09/20 15:43	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**56**				%			01/14/20 11:13	1
Calculated TDS	**4.6**				mg/L			01/14/20 11:13	1
TDS Ratio	**5.7**				NONE			01/14/20 11:13	1
TDS to Conductivity Ratio	**1.2**				NONE			01/14/20 11:13	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/23/19 16:55	1
Ammonia as N	ND	U	0.020		mg/L as N			01/06/20 09:38	1
Nitrate	ND		0.050		mg/L as N			12/20/19 14:11	1
Sulfate	ND		5.0		mg/L			12/23/19 17:42	1
Chloride	**1.5**		0.50		mg/L			12/23/19 19:52	1
Total Dissolved Solids	**160**		5.0		mg/L			12/21/19 13:33	1
Total Dissolved Solids	**26**		5.0		mg/L			12/24/19 10:29	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			12/23/19 11:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.3**				NTU			12/19/19 11:08	1
Temperature	**3.7**				Degrees C			12/19/19 11:08	1
Field pH	**5.26**				SU			12/19/19 11:08	1
Specific Conductance	**22**				umhos/cm			12/19/19 11:08	1
Field EH/ORP	**-56.0**				millivolts			12/19/19 11:08	1
Oxygen, Dissolved	**10.9**				mg/L			12/19/19 11:08	1
Purge Rate	**0.1**				L/min			12/19/19 11:08	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-503472/1-A
Matrix: Water
Analysis Batch: 504375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503472

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/11/19 10:20	11/14/19 00:00	1
Barium	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:00	1
Calcium	ND	U	0.15		mg/L		11/11/19 10:20	11/14/19 00:00	1
Chromium	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:00	1
Copper	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:00	1
Iron	ND	U	0.030		mg/L		11/11/19 10:20	11/14/19 00:00	1
Magnesium	ND	U	0.24		mg/L		11/11/19 10:20	11/14/19 00:00	1
Manganese	ND	U	0.010		mg/L		11/11/19 10:20	11/14/19 00:00	1
Potassium	ND	U	0.20		mg/L		11/11/19 10:20	11/14/19 00:00	1
Lead	ND	U	0.0050		mg/L		11/11/19 10:20	11/14/19 00:00	1
Sodium	ND	U	0.40		mg/L		11/11/19 10:20	11/14/19 00:00	1
Vanadium	ND	U	0.025		mg/L		11/11/19 10:20	11/14/19 00:00	1
Zinc	ND	U	0.020		mg/L		11/11/19 10:20	11/14/19 00:00	1

Lab Sample ID: LCS 480-503472/2-A
Matrix: Water
Analysis Batch: 504375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.201		mg/L		100	80 - 120
Barium	0.200	0.213		mg/L		107	80 - 120
Calcium	10.0	9.84		mg/L		98	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Copper	0.200	0.195		mg/L		98	80 - 120
Iron	10.0	9.99		mg/L		100	80 - 120
Magnesium	10.0	9.85		mg/L		99	80 - 120
Manganese	0.200	0.203		mg/L		101	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Lead	0.200	0.193		mg/L		97	80 - 120
Sodium	10.0	9.69		mg/L		97	80 - 120
Vanadium	0.200	0.206		mg/L		103	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: MB 480-503784/1-A
Matrix: Water
Analysis Batch: 505547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503784

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/12/19 09:32	11/19/19 19:31	1
Barium	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 19:31	1
Calcium	ND	U	0.15		mg/L		11/12/19 09:32	11/19/19 19:31	1
Chromium	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 19:31	1
Copper	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 19:31	1
Iron	ND	U	0.030		mg/L		11/12/19 09:32	11/19/19 19:31	1
Magnesium	ND	U	0.24		mg/L		11/12/19 09:32	11/19/19 19:31	1
Manganese	ND	U	0.010		mg/L		11/12/19 09:32	11/19/19 19:31	1
Potassium	ND	U	0.20		mg/L		11/12/19 09:32	11/19/19 19:31	1
Lead	ND	U	0.0050		mg/L		11/12/19 09:32	11/19/19 19:31	1
Sodium	ND	U	0.40		mg/L		11/12/19 09:32	11/19/19 19:31	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-503784/1-A
Matrix: Water
Analysis Batch: 505547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503784

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND	U	0.025		mg/L		11/12/19 09:32	11/19/19 19:31	1
Zinc	ND	U	0.020		mg/L		11/12/19 09:32	11/19/19 19:31	1

Lab Sample ID: LCS 480-503784/2-A
Matrix: Water
Analysis Batch: 505547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.197		mg/L		98	80 - 120		
Barium			0.200	0.207		mg/L		104	80 - 120		
Calcium			10.0	10.1		mg/L		101	80 - 120		
Chromium			0.200	0.204		mg/L		102	80 - 120		
Copper			0.200	0.192		mg/L		96	80 - 120		
Iron			10.0	9.83		mg/L		98	80 - 120		
Magnesium			10.0	10.1		mg/L		101	80 - 120		
Manganese			0.200	0.197		mg/L		98	80 - 120		
Potassium			10.0	9.45		mg/L		94	80 - 120		
Lead			0.200	0.191		mg/L		96	80 - 120		
Sodium			10.0	9.21		mg/L		92	80 - 120		
Vanadium			0.200	0.190		mg/L		95	80 - 120		
Zinc			0.200	0.206		mg/L		103	80 - 120		

Lab Sample ID: MB 480-504043/1-A
Matrix: Water
Analysis Batch: 505034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504043

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		11/13/19 09:24	11/16/19 17:41	1
Potassium	ND	U	0.20		mg/L		11/13/19 09:24	11/16/19 17:41	1
Sodium	ND	U	0.40		mg/L		11/13/19 09:24	11/16/19 17:41	1

Lab Sample ID: LCS 480-504043/2-A
Matrix: Water
Analysis Batch: 505034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504043

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			0.200	0.208		mg/L		104	80 - 120		
Potassium			10.0	9.32		mg/L		93	80 - 120		
Sodium			10.0	9.52		mg/L		95	80 - 120		

Lab Sample ID: MB 480-504222/1-A
Matrix: Water
Analysis Batch: 504652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504222

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/14/19 09:43	11/14/19 23:24	1
Calcium	ND	U	0.15		mg/L		11/14/19 09:43	11/14/19 23:24	1
Chromium	ND	U	0.010		mg/L		11/14/19 09:43	11/14/19 23:24	1
Copper	ND	U	0.025		mg/L		11/14/19 09:43	11/14/19 23:24	1
Iron	ND	U	0.030		mg/L		11/14/19 09:43	11/14/19 23:24	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-504222/1-A
Matrix: Water
Analysis Batch: 504652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504222

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND	U	0.24		mg/L		11/14/19 09:43	11/14/19 23:24	1
Manganese	ND	U	0.010		mg/L		11/14/19 09:43	11/14/19 23:24	1
Lead	ND	U	0.0050		mg/L		11/14/19 09:43	11/14/19 23:24	1
Vanadium	ND	U	0.025		mg/L		11/14/19 09:43	11/14/19 23:24	1
Zinc	ND	U	0.020		mg/L		11/14/19 09:43	11/14/19 23:24	1

Lab Sample ID: LCS 480-504222/2-A
Matrix: Water
Analysis Batch: 504652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504222

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.204		mg/L		102	80 - 120		
Calcium			10.0	10.1		mg/L		101	80 - 120		
Chromium			0.200	0.203		mg/L		102	80 - 120		
Copper			0.200	0.199		mg/L		100	80 - 120		
Iron			10.0	10.3		mg/L		103	80 - 120		
Magnesium			10.0	9.92		mg/L		99	80 - 120		
Manganese			0.200	0.200		mg/L		100	80 - 120		
Lead			0.200	0.196		mg/L		98	80 - 120		
Vanadium			0.200	0.201		mg/L		100	80 - 120		
Zinc			0.200	0.209		mg/L		105	80 - 120		

Lab Sample ID: MB 480-504493/1-A
Matrix: Water
Analysis Batch: 504895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504493

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:53	11/15/19 18:27	1
Barium	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 18:27	1
Calcium	ND	U	0.15		mg/L		11/15/19 08:53	11/15/19 18:27	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 18:27	1
Copper	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:27	1
Iron	ND	U	0.030		mg/L		11/15/19 08:53	11/15/19 18:27	1
Magnesium	ND	U	0.24		mg/L		11/15/19 08:53	11/15/19 18:27	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:53	11/15/19 18:27	1
Potassium	ND	U	0.20		mg/L		11/15/19 08:53	11/15/19 18:27	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:53	11/15/19 18:27	1
Sodium	ND	U	0.40		mg/L		11/15/19 08:53	11/15/19 18:27	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:53	11/15/19 18:27	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:53	11/15/19 18:27	1

Lab Sample ID: LCS 480-504493/2-A
Matrix: Water
Analysis Batch: 504895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504493

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.202		mg/L		101	80 - 120		
Barium			0.200	0.211		mg/L		105	80 - 120		
Calcium			10.0	10.2		mg/L		102	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-504493/2-A
Matrix: Water
Analysis Batch: 504895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.202		mg/L		101	80 - 120
Copper	0.200	0.198		mg/L		99	80 - 120
Iron	10.0	10.2		mg/L		102	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Manganese	0.200	0.201		mg/L		100	80 - 120
Potassium	10.0	9.82		mg/L		98	80 - 120
Lead	0.200	0.197		mg/L		99	80 - 120
Sodium	10.0	9.54		mg/L		95	80 - 120
Vanadium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: LCSD 480-504493/24-A
Matrix: Water
Analysis Batch: 504895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.200	0.206		mg/L		103	80 - 120	2	20
Barium	0.200	0.213		mg/L		106	80 - 120	1	20
Calcium	10.0	10.5		mg/L		105	80 - 120	3	20
Chromium	0.200	0.204		mg/L		102	80 - 120	1	20
Copper	0.200	0.202		mg/L		101	80 - 120	2	20
Iron	10.0	10.5		mg/L		105	80 - 120	3	20
Magnesium	10.0	10.1		mg/L		101	80 - 120	1	20
Manganese	0.200	0.201		mg/L		100	80 - 120	0	20
Potassium	10.0	9.99		mg/L		100	80 - 120	2	20
Lead	0.200	0.203		mg/L		101	80 - 120	3	20
Sodium	10.0	10.0		mg/L		100	80 - 120	5	20
Vanadium	0.200	0.199		mg/L		100	80 - 120	0	20
Zinc	0.200	0.206		mg/L		103	80 - 120	0	20

Lab Sample ID: 480-162577-2 MS
Matrix: Ground Water
Analysis Batch: 504895

Client Sample ID: 106DR
Prep Type: Total/NA
Prep Batch: 504493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	0.200	0.205		mg/L		103	75 - 125
Barium	0.022		0.200	0.227		mg/L		102	75 - 125
Calcium	98		10.0	109		mg/L		118	75 - 125
Chromium	ND	U	0.200	0.202		mg/L		101	75 - 125
Copper	ND	U	0.200	0.201		mg/L		100	75 - 125
Iron	ND	U	10.0	10.3		mg/L		103	75 - 125
Magnesium	11		10.0	21.0		mg/L		95	75 - 125
Manganese	ND	U	0.200	0.201		mg/L		98	75 - 125
Potassium	6.0		10.0	15.7		mg/L		97	75 - 125
Lead	ND	U	0.200	0.203		mg/L		101	75 - 125
Sodium	3.6		10.0	13.2		mg/L		97	75 - 125
Vanadium	ND	U	0.200	0.199		mg/L		100	75 - 125
Zinc	ND	U	0.200	0.202		mg/L		99	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-162577-2 MSD
Matrix: Ground Water
Analysis Batch: 504895

Client Sample ID: 106DR
Prep Type: Total/NA
Prep Batch: 504493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	0.200	0.209		mg/L		104	75 - 125	2	20
Barium	0.022		0.200	0.229		mg/L		104	75 - 125	1	20
Calcium	98		10.0	111		mg/L		135	75 - 125	2	20
Chromium	ND	U	0.200	0.200		mg/L		100	75 - 125	1	20
Copper	ND	U	0.200	0.201		mg/L		100	75 - 125	0	20
Iron	ND	U	10.0	10.3		mg/L		103	75 - 125	0	20
Magnesium	11		10.0	21.3		mg/L		99	75 - 125	2	20
Manganese	ND	U	0.200	0.201		mg/L		98	75 - 125	0	20
Potassium	6.0		10.0	15.9		mg/L		99	75 - 125	1	20
Lead	ND	U	0.200	0.203		mg/L		102	75 - 125	0	20
Sodium	3.6		10.0	13.3		mg/L		98	75 - 125	1	20
Vanadium	ND	U	0.200	0.199		mg/L		99	75 - 125	0	20
Zinc	ND	U	0.200	0.202		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 480-504560/1-A
Matrix: Water
Analysis Batch: 504894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504560

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/15/19 08:49	11/15/19 16:44	1
Barium	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 16:44	1
Calcium	ND	U	0.15		mg/L		11/15/19 08:49	11/15/19 16:44	1
Chromium	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 16:44	1
Copper	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 16:44	1
Iron	ND	U	0.030		mg/L		11/15/19 08:49	11/15/19 16:44	1
Magnesium	ND	U	0.24		mg/L		11/15/19 08:49	11/15/19 16:44	1
Manganese	ND	U	0.010		mg/L		11/15/19 08:49	11/15/19 16:44	1
Potassium	ND	U	0.20		mg/L		11/15/19 08:49	11/15/19 16:44	1
Lead	ND	U	0.0050		mg/L		11/15/19 08:49	11/15/19 16:44	1
Sodium	ND	U	0.40		mg/L		11/15/19 08:49	11/15/19 16:44	1
Vanadium	ND	U	0.025		mg/L		11/15/19 08:49	11/15/19 16:44	1
Zinc	ND	U	0.020		mg/L		11/15/19 08:49	11/15/19 16:44	1

Lab Sample ID: LCS 480-504560/2-A
Matrix: Water
Analysis Batch: 504894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.200		mg/L		100	80 - 120		
Barium			0.200	0.202		mg/L		101	80 - 120		
Calcium			10.0	9.91		mg/L		99	80 - 120		
Chromium			0.200	0.198		mg/L		99	80 - 120		
Copper			0.200	0.192		mg/L		96	80 - 120		
Iron			10.0	9.88		mg/L		99	80 - 120		
Magnesium			10.0	9.64		mg/L		96	80 - 120		
Manganese			0.200	0.193		mg/L		97	80 - 120		
Potassium			10.0	9.59		mg/L		96	80 - 120		
Lead			0.200	0.192		mg/L		96	80 - 120		
Sodium			10.0	9.46		mg/L		94	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-504560/2-A
Matrix: Water
Analysis Batch: 504894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.200	0.194		mg/L		97	80 - 120
Zinc	0.200	0.207		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-504560/20-A
Matrix: Water
Analysis Batch: 504894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.200	0.199		mg/L		99	80 - 120	1	20
Barium	0.200	0.210		mg/L		105	80 - 120	4	20
Calcium	10.0	10.1		mg/L		101	80 - 120	2	20
Chromium	0.200	0.199		mg/L		99	80 - 120	1	20
Copper	0.200	0.197		mg/L		99	80 - 120	3	20
Iron	10.0	10.2		mg/L		102	80 - 120	3	20
Magnesium	10.0	9.89		mg/L		99	80 - 120	3	20
Manganese	0.200	0.199		mg/L		99	80 - 120	3	20
Potassium	10.0	9.82		mg/L		98	80 - 120	2	20
Lead	0.200	0.195		mg/L		98	80 - 120	1	20
Sodium	10.0	9.82		mg/L		98	80 - 120	4	20
Vanadium	0.200	0.196		mg/L		98	80 - 120	1	20
Zinc	0.200	0.203		mg/L		101	80 - 120	2	20

Lab Sample ID: MB 480-505016/1-A
Matrix: Water
Analysis Batch: 505336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		11/18/19 09:38	11/18/19 17:13	1
Barium	ND	U	0.0050	mg/L		11/18/19 09:38	11/18/19 17:13	1
Calcium	ND	U	0.15	mg/L		11/18/19 09:38	11/18/19 17:13	1
Chromium	ND	U	0.010	mg/L		11/18/19 09:38	11/18/19 17:13	1
Copper	ND	U	0.025	mg/L		11/18/19 09:38	11/18/19 17:13	1
Iron	ND	U	0.030	mg/L		11/18/19 09:38	11/18/19 17:13	1
Magnesium	ND	U	0.24	mg/L		11/18/19 09:38	11/18/19 17:13	1
Manganese	ND	U	0.010	mg/L		11/18/19 09:38	11/18/19 17:13	1
Potassium	ND	U	0.20	mg/L		11/18/19 09:38	11/18/19 17:13	1
Lead	ND	U	0.0050	mg/L		11/18/19 09:38	11/18/19 17:13	1
Sodium	ND	U	0.40	mg/L		11/18/19 09:38	11/18/19 17:13	1
Vanadium	ND	U	0.025	mg/L		11/18/19 09:38	11/18/19 17:13	1
Zinc	ND	U	0.020	mg/L		11/18/19 09:38	11/18/19 17:13	1

Lab Sample ID: LCS 480-505016/2-A
Matrix: Water
Analysis Batch: 505336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.194		mg/L		97	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Calcium	10.0	9.71		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-505016/2-A
Matrix: Water
Analysis Batch: 505336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.195		mg/L		98	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Iron	10.0	9.87		mg/L		99	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Manganese	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	9.65		mg/L		96	80 - 120
Lead	0.200	0.193		mg/L		97	80 - 120
Sodium	10.0	9.27		mg/L		93	80 - 120
Vanadium	0.200	0.194		mg/L		97	80 - 120
Zinc	0.200	0.201		mg/L		100	80 - 120

Lab Sample ID: LCSD 480-505016/25-A
Matrix: Water
Analysis Batch: 505336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 505016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.200	0.187		mg/L		93	80 - 120	4	20
Barium	0.200	0.196		mg/L		98	80 - 120	5	20
Calcium	10.0	9.42		mg/L		94	80 - 120	3	20
Chromium	0.200	0.190		mg/L		95	80 - 120	2	20
Copper	0.200	0.187		mg/L		93	80 - 120	5	20
Iron	10.0	9.37		mg/L		94	80 - 120	5	20
Magnesium	10.0	9.19		mg/L		92	80 - 120	4	20
Manganese	0.200	0.186		mg/L		93	80 - 120	4	20
Potassium	10.0	9.37		mg/L		94	80 - 120	3	20
Lead	0.200	0.185		mg/L		93	80 - 120	4	20
Sodium	10.0	9.18		mg/L		92	80 - 120	1	20
Vanadium	0.200	0.186		mg/L		93	80 - 120	4	20
Zinc	0.200	0.193		mg/L		97	80 - 120	4	20

Lab Sample ID: MB 480-505715/1-A
Matrix: Water
Analysis Batch: 507580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505715

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		11/21/19 10:18	11/30/19 16:43	1
Barium	ND	U	0.0050	mg/L		11/21/19 10:18	11/30/19 16:43	1
Calcium	ND	U	0.15	mg/L		11/21/19 10:18	11/30/19 16:43	1
Chromium	ND	U	0.010	mg/L		11/21/19 10:18	11/30/19 16:43	1
Copper	ND	U	0.025	mg/L		11/21/19 10:18	11/30/19 16:43	1
Iron	ND	U	0.030	mg/L		11/21/19 10:18	11/30/19 16:43	1
Magnesium	ND	U	0.24	mg/L		11/21/19 10:18	11/30/19 16:43	1
Manganese	ND	U	0.010	mg/L		11/21/19 10:18	11/30/19 16:43	1
Potassium	ND	U	0.20	mg/L		11/21/19 10:18	11/30/19 16:43	1
Lead	ND	U	0.0050	mg/L		11/21/19 10:18	11/30/19 16:43	1
Sodium	ND	U	0.40	mg/L		11/21/19 10:18	11/30/19 16:43	1
Vanadium	ND	U	0.025	mg/L		11/21/19 10:18	11/30/19 16:43	1
Zinc	ND	U	0.020	mg/L		11/21/19 10:18	11/30/19 16:43	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-505715/2-A
Matrix: Water
Analysis Batch: 507580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.217		mg/L		108	80 - 120
Barium	0.200	0.228		mg/L		114	80 - 120
Calcium	10.0	10.8		mg/L		108	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Copper	0.200	0.213		mg/L		107	80 - 120
Iron	10.0	10.9		mg/L		109	80 - 120
Magnesium	10.0	10.4		mg/L		104	80 - 120
Manganese	0.200	0.212		mg/L		106	80 - 120
Potassium	10.0	10.6		mg/L		106	80 - 120
Lead	0.200	0.208		mg/L		104	80 - 120
Sodium	10.0	10.6		mg/L		106	80 - 120
Vanadium	0.200	0.214		mg/L		107	80 - 120
Zinc	0.200	0.213		mg/L		107	80 - 120

Lab Sample ID: 480-162893-1 MS
Matrix: Ground Water
Analysis Batch: 507580

Client Sample ID: 104C
Prep Type: Total/NA
Prep Batch: 505715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.015		0.200	0.226		mg/L		106	75 - 125
Barium	0.0086		0.200	0.228		mg/L		110	75 - 125
Calcium	37		10.0	46.5		mg/L		100	75 - 125
Chromium	ND	U	0.200	0.201		mg/L		100	75 - 125
Copper	ND	U	0.200	0.207		mg/L		103	75 - 125
Iron	0.37		10.0	10.9		mg/L		105	75 - 125
Magnesium	7.1		10.0	16.9		mg/L		98	75 - 125
Manganese	0.85		0.200	1.03		mg/L		90	75 - 125
Potassium	3.5		10.0	13.9		mg/L		104	75 - 125
Lead	ND	U	0.200	0.206		mg/L		103	75 - 125
Sodium	9.2		10.0	19.3		mg/L		101	75 - 125
Vanadium	ND	U	0.200	0.210		mg/L		105	75 - 125
Zinc	ND	U	0.200	0.207		mg/L		104	75 - 125

Lab Sample ID: 480-162893-1 MSD
Matrix: Ground Water
Analysis Batch: 507580

Client Sample ID: 104C
Prep Type: Total/NA
Prep Batch: 505715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.015		0.200	0.226		mg/L		105	75 - 125	0	20
Barium	0.0086		0.200	0.227		mg/L		109	75 - 125	0	20
Calcium	37		10.0	46.0		mg/L		95	75 - 125	1	20
Chromium	ND	U	0.200	0.201		mg/L		101	75 - 125	0	20
Copper	ND	U	0.200	0.206		mg/L		103	75 - 125	1	20
Iron	0.37		10.0	10.8		mg/L		105	75 - 125	0	20
Magnesium	7.1		10.0	16.9		mg/L		97	75 - 125	0	20
Manganese	0.85		0.200	1.03		mg/L		88	75 - 125	0	20
Potassium	3.5		10.0	13.8		mg/L		103	75 - 125	1	20
Lead	ND	U	0.200	0.205		mg/L		102	75 - 125	1	20
Sodium	9.2		10.0	19.0		mg/L		98	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-162893-1 MSD
Matrix: Ground Water
Analysis Batch: 507580

Client Sample ID: 104C
Prep Type: Total/NA
Prep Batch: 505715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND	U	0.200	0.208		mg/L		104	75 - 125	1	20
Zinc	ND	U	0.200	0.206		mg/L		103	75 - 125	1	20

Lab Sample ID: MB 480-505722/1-A
Matrix: Water
Analysis Batch: 507461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505722

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/21/19 10:12	11/29/19 21:58	1
Barium	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 21:58	1
Calcium	ND	U	0.15		mg/L		11/21/19 10:12	11/29/19 21:58	1
Chromium	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 21:58	1
Copper	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 21:58	1
Iron	ND	U	0.030		mg/L		11/21/19 10:12	11/29/19 21:58	1
Magnesium	ND	U	0.24		mg/L		11/21/19 10:12	11/29/19 21:58	1
Manganese	ND	U	0.010		mg/L		11/21/19 10:12	11/29/19 21:58	1
Potassium	ND	U	0.20		mg/L		11/21/19 10:12	11/29/19 21:58	1
Lead	ND	U	0.0050		mg/L		11/21/19 10:12	11/29/19 21:58	1
Sodium	ND	U	0.40		mg/L		11/21/19 10:12	11/29/19 21:58	1
Vanadium	ND	U	0.025		mg/L		11/21/19 10:12	11/29/19 21:58	1
Zinc	ND	U	0.020		mg/L		11/21/19 10:12	11/29/19 21:58	1

Lab Sample ID: LCS 480-505722/2-A
Matrix: Water
Analysis Batch: 507461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505722

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.217		mg/L		108	80 - 120		
Barium			0.200	0.226		mg/L		113	80 - 120		
Calcium			10.0	10.6		mg/L		106	80 - 120		
Chromium			0.200	0.221		mg/L		111	80 - 120		
Copper			0.200	0.210		mg/L		105	80 - 120		
Iron			10.0	10.7		mg/L		107	80 - 120		
Magnesium			10.0	10.6		mg/L		106	80 - 120		
Manganese			0.200	0.218		mg/L		109	80 - 120		
Potassium			10.0	10.9		mg/L		109	80 - 120		
Lead			0.200	0.204		mg/L		102	80 - 120		
Sodium			10.0	10.5		mg/L		105	80 - 120		
Vanadium			0.200	0.221		mg/L		110	80 - 120		
Zinc			0.200	0.212		mg/L		106	80 - 120		

Lab Sample ID: MB 480-506213/1-A
Matrix: Water
Analysis Batch: 506777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/23/19 10:37	11/26/19 06:08	1
Barium	ND	U	0.0050		mg/L		11/23/19 10:37	11/26/19 06:08	1
Calcium	ND	U	0.15		mg/L		11/23/19 10:37	11/26/19 06:08	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-506213/1-A
Matrix: Water
Analysis Batch: 506777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	U	0.010		mg/L		11/23/19 10:37	11/26/19 06:08	1
Copper	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 06:08	1
Iron	ND	U	0.030		mg/L		11/23/19 10:37	11/26/19 06:08	1
Magnesium	ND	U	0.24		mg/L		11/23/19 10:37	11/26/19 06:08	1
Manganese	ND	U	0.010		mg/L		11/23/19 10:37	11/26/19 06:08	1
Potassium	0.207		0.20		mg/L		11/23/19 10:37	11/26/19 06:08	1
Lead	ND	U	0.0050		mg/L		11/23/19 10:37	11/26/19 06:08	1
Sodium	ND	U	0.40		mg/L		11/23/19 10:37	11/26/19 06:08	1
Vanadium	ND	U	0.025		mg/L		11/23/19 10:37	11/26/19 06:08	1
Zinc	ND	U	0.020		mg/L		11/23/19 10:37	11/26/19 06:08	1

Lab Sample ID: LCS 480-506213/2-A
Matrix: Water
Analysis Batch: 506777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.195		mg/L		98	80 - 120		
Barium			0.200	0.209		mg/L		105	80 - 120		
Calcium			10.0	9.97		mg/L		100	80 - 120		
Chromium			0.200	0.195		mg/L		98	80 - 120		
Copper			0.200	0.198		mg/L		99	80 - 120		
Iron			10.0	10.1		mg/L		101	80 - 120		
Magnesium			10.0	9.75		mg/L		98	80 - 120		
Manganese			0.200	0.198		mg/L		99	80 - 120		
Potassium			10.0	9.78		mg/L		98	80 - 120		
Lead			0.200	0.193		mg/L		96	80 - 120		
Sodium			10.0	9.51		mg/L		95	80 - 120		
Vanadium			0.200	0.195		mg/L		97	80 - 120		
Zinc			0.200	0.197		mg/L		98	80 - 120		

Lab Sample ID: MB 480-506297/1-A
Matrix: Water
Analysis Batch: 506556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506297

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND	U	0.020		mg/L		11/23/19 07:00	11/23/19 12:26	1

Lab Sample ID: LCS 480-506297/2-A
Matrix: Water
Analysis Batch: 506556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Zinc			0.200	0.195		mg/L		97	80 - 120		

Lab Sample ID: MB 480-507008/1-A
Matrix: Water
Analysis Batch: 507456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507008

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/27/19 09:55	11/29/19 13:07	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-507008/1-A
Matrix: Water
Analysis Batch: 507456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507008

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		11/27/19 09:55	11/29/19 13:07	1
Calcium	ND	U	0.15		mg/L		11/27/19 09:55	11/29/19 13:07	1
Chromium	ND	U	0.010		mg/L		11/27/19 09:55	11/29/19 13:07	1
Copper	ND	U	0.025		mg/L		11/27/19 09:55	11/29/19 13:07	1
Iron	ND	U	0.030		mg/L		11/27/19 09:55	11/29/19 13:07	1
Magnesium	ND	U	0.24		mg/L		11/27/19 09:55	11/29/19 13:07	1
Manganese	ND	U	0.010		mg/L		11/27/19 09:55	11/29/19 13:07	1
Potassium	ND	U	0.20		mg/L		11/27/19 09:55	11/29/19 13:07	1
Lead	ND	U	0.0050		mg/L		11/27/19 09:55	11/29/19 13:07	1
Sodium	ND	U	0.40		mg/L		11/27/19 09:55	11/29/19 13:07	1
Vanadium	ND	U	0.025		mg/L		11/27/19 09:55	11/29/19 13:07	1
Zinc	ND	U	0.020		mg/L		11/27/19 09:55	11/29/19 13:07	1

Lab Sample ID: LCS 480-507008/2-A
Matrix: Water
Analysis Batch: 507456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507008

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.200		mg/L		100	80 - 120		
Barium			0.200	0.214		mg/L		107	80 - 120		
Calcium			10.0	9.88		mg/L		99	80 - 120		
Chromium			0.200	0.202		mg/L		101	80 - 120		
Copper			0.200	0.198		mg/L		99	80 - 120		
Iron			10.0	10.1		mg/L		101	80 - 120		
Magnesium			10.0	10.1		mg/L		101	80 - 120		
Manganese			0.200	0.204		mg/L		102	80 - 120		
Potassium			10.0	10.0		mg/L		100	80 - 120		
Lead			0.200	0.194		mg/L		97	80 - 120		
Sodium			10.0	9.72		mg/L		97	80 - 120		
Vanadium			0.200	0.203		mg/L		102	80 - 120		
Zinc			0.200	0.200		mg/L		100	80 - 120		

Lab Sample ID: MB 480-508390/1-A
Matrix: Water
Analysis Batch: 508783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508390

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.0050		mg/L		12/06/19 05:57	12/06/19 14:29	1

Lab Sample ID: LCS 480-508390/2-A
Matrix: Water
Analysis Batch: 508783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.200	0.191		mg/L		96	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-508390/15-A
Matrix: Water
Analysis Batch: 508783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 508390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			0.200	0.187		mg/L		93	80 - 120	2	20

Lab Sample ID: MB 480-508465/1-A
Matrix: Water
Analysis Batch: 508993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508465

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	0.030		mg/L		12/06/19 10:16	12/09/19 11:24	1

Lab Sample ID: LCS 480-508465/2-A
Matrix: Water
Analysis Batch: 508993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508465

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	10.4		mg/L		104	80 - 120		

Lab Sample ID: MB 480-509392/1-A
Matrix: Water
Analysis Batch: 510482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509392

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		12/13/19 08:20	12/17/19 23:46	1
Barium	ND	U	0.0050		mg/L		12/13/19 08:20	12/17/19 23:46	1
Calcium	ND	U	0.15		mg/L		12/13/19 08:20	12/17/19 23:46	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:20	12/17/19 23:46	1
Copper	ND	U	0.025		mg/L		12/13/19 08:20	12/17/19 23:46	1
Iron	ND	U	0.030		mg/L		12/13/19 08:20	12/17/19 23:46	1
Magnesium	ND	U	0.24		mg/L		12/13/19 08:20	12/17/19 23:46	1
Manganese	ND	U	0.010		mg/L		12/13/19 08:20	12/17/19 23:46	1
Potassium	ND	U	0.20		mg/L		12/13/19 08:20	12/17/19 23:46	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:20	12/17/19 23:46	1
Sodium	ND	U	0.40		mg/L		12/13/19 08:20	12/17/19 23:46	1
Vanadium	ND	U	0.025		mg/L		12/13/19 08:20	12/17/19 23:46	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:20	12/17/19 23:46	1

Lab Sample ID: LCS 480-509392/2-A
Matrix: Water
Analysis Batch: 510482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509392

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.199		mg/L		100	80 - 120		
Barium			0.200	0.214		mg/L		107	80 - 120		
Calcium			10.0	9.77		mg/L		98	80 - 120		
Chromium			0.200	0.202		mg/L		101	80 - 120		
Copper			0.200	0.210		mg/L		105	80 - 120		
Iron			10.0	10.3		mg/L		103	80 - 120		
Magnesium			10.0	9.95		mg/L		99	80 - 120		
Manganese			0.200	0.203		mg/L		102	80 - 120		
Potassium			10.0	10.0		mg/L		100	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-509392/2-A
Matrix: Water
Analysis Batch: 510482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.200	0.200		mg/L		100	80 - 120
Sodium	10.0	9.69		mg/L		97	80 - 120
Vanadium	0.200	0.203		mg/L		102	80 - 120
Zinc	0.200	0.207		mg/L		103	80 - 120

Lab Sample ID: MB 480-511610/1-A
Matrix: Water
Analysis Batch: 511800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511610

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0090		mg/L		12/24/19 09:27	12/24/19 17:03	1
Barium	ND		0.0050		mg/L		12/24/19 09:27	12/24/19 17:03	1
Calcium	ND		0.15		mg/L		12/24/19 09:27	12/24/19 17:03	1
Chromium	ND		0.010		mg/L		12/24/19 09:27	12/24/19 17:03	1
Copper	ND		0.025		mg/L		12/24/19 09:27	12/24/19 17:03	1
Iron	ND		0.030		mg/L		12/24/19 09:27	12/24/19 17:03	1
Magnesium	ND		0.24		mg/L		12/24/19 09:27	12/24/19 17:03	1
Manganese	ND		0.010		mg/L		12/24/19 09:27	12/24/19 17:03	1
Potassium	ND		0.20		mg/L		12/24/19 09:27	12/24/19 17:03	1
Lead	ND		0.0050		mg/L		12/24/19 09:27	12/24/19 17:03	1
Sodium	ND		0.40		mg/L		12/24/19 09:27	12/24/19 17:03	1
Vanadium	ND		0.025		mg/L		12/24/19 09:27	12/24/19 17:03	1
Zinc	ND		0.020		mg/L		12/24/19 09:27	12/24/19 17:03	1

Lab Sample ID: LCS 480-511610/2-A
Matrix: Water
Analysis Batch: 511800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.190		mg/L		95	80 - 120
Barium	0.200	0.199		mg/L		100	80 - 120
Calcium	10.0	9.23		mg/L		92	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.200	0.187		mg/L		93	80 - 120
Iron	10.0	9.29		mg/L		93	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Manganese	0.200	0.195		mg/L		98	80 - 120
Potassium	10.0	9.72		mg/L		97	80 - 120
Lead	0.200	0.188		mg/L		94	80 - 120
Sodium	10.0	9.36		mg/L		93	80 - 120
Vanadium	0.200	0.193		mg/L		96	80 - 120
Zinc	0.200	0.199		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-595989/1-A
Matrix: Water
Analysis Batch: 596510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595989

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/13/19 12:02	11/16/19 00:23	1

Lab Sample ID: LCS 680-595989/2-A
Matrix: Water
Analysis Batch: 596510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595989

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.32		mg/L		106	80 - 120		

Lab Sample ID: 480-162327-4 MS
Matrix: Ground Water
Analysis Batch: 596510

Client Sample ID: 629B
Prep Type: Total/NA
Prep Batch: 595989

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	ND	U	5.00	5.14		mg/L		102	75 - 125		

Lab Sample ID: 480-162327-4 MSD
Matrix: Ground Water
Analysis Batch: 596510

Client Sample ID: 629B
Prep Type: Total/NA
Prep Batch: 595989

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.03		mg/L		100	75 - 125	2	20

Lab Sample ID: MB 680-596746/1-A
Matrix: Water
Analysis Batch: 597053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596746

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/18/19 15:04	11/19/19 17:20	1

Lab Sample ID: LCS 680-596746/2-A
Matrix: Water
Analysis Batch: 597053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596746

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.12		mg/L		102	80 - 120		

Lab Sample ID: MB 680-596997/1-A
Matrix: Water
Analysis Batch: 597249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596997

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/19/19 20:24	11/20/19 22:28	1

Lab Sample ID: LCS 680-596997/2-A
Matrix: Water
Analysis Batch: 597249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596997

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	4.82		mg/L		96	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 480-162577-3 MS
Matrix: Ground Water
Analysis Batch: 597249

Client Sample ID: 106WR
Prep Type: Total/NA
Prep Batch: 596997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND	U	5.00	5.14		mg/L		100	75 - 125

Lab Sample ID: 480-162577-3 MSD
Matrix: Ground Water
Analysis Batch: 597249

Client Sample ID: 106WR
Prep Type: Total/NA
Prep Batch: 596997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.02		mg/L		98	75 - 125	2	20

Lab Sample ID: MB 680-597372/1-A
Matrix: Water
Analysis Batch: 597704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597372

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/21/19 16:43	11/22/19 20:37	1

Lab Sample ID: LCS 680-597372/2-A
Matrix: Water
Analysis Batch: 597704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			5.00	4.89		mg/L		98	80 - 120

Lab Sample ID: MB 680-597770/1-A
Matrix: Water
Analysis Batch: 598010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597770

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		11/25/19 09:09	11/25/19 17:35	1

Lab Sample ID: LCS 680-597770/2-A
Matrix: Water
Analysis Batch: 598010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597770

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			5.00	4.75		mg/L		95	80 - 120

Lab Sample ID: MB 680-598892/1-A
Matrix: Water
Analysis Batch: 599175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598892

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/03/19 12:20	12/04/19 14:21	1

Lab Sample ID: LCS 680-598892/2-A
Matrix: Water
Analysis Batch: 599175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			5.00	4.98		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 480-163285-1 MS
Matrix: Ground Water
Analysis Batch: 599175

Client Sample ID: W12-1E
Prep Type: Total/NA
Prep Batch: 598892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.7		5.00	8.71		mg/L		120	75 - 125

Lab Sample ID: 480-163285-1 MSD
Matrix: Ground Water
Analysis Batch: 599175

Client Sample ID: W12-1E
Prep Type: Total/NA
Prep Batch: 598892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	2.7		5.00	8.23		mg/L		111	75 - 125	6	20

Lab Sample ID: MB 680-601743/1-A
Matrix: Water
Analysis Batch: 601922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601743

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/23/19 09:45	12/23/19 18:25	1

Lab Sample ID: LCS 680-601743/2-A
Matrix: Water
Analysis Batch: 601922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601743

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			5.00	5.14		mg/L		103	80 - 120

Lab Sample ID: 480-163965-3 MS
Matrix: Ground Water
Analysis Batch: 601922

Client Sample ID: 618AR
Prep Type: Total/NA
Prep Batch: 601743

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND	U	5.00	5.53		mg/L		111	75 - 125

Lab Sample ID: 480-163965-3 MSD
Matrix: Ground Water
Analysis Batch: 601922

Client Sample ID: 618AR
Prep Type: Total/NA
Prep Batch: 601743

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND	U	5.00	5.40		mg/L		108	75 - 125	2	20

Lab Sample ID: MB 680-602296/1-A
Matrix: Water
Analysis Batch: 602720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/27/19 13:22	12/30/19 12:13	1

Lab Sample ID: LCS 680-602296/2-A
Matrix: Water
Analysis Batch: 602720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			5.00	5.06		mg/L		101	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-603294/1-A
Matrix: Water
Analysis Batch: 603398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603294

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		01/09/20 10:43	01/09/20 15:22	1

Lab Sample ID: LCS 680-603294/2-A
Matrix: Water
Analysis Batch: 603398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603294

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.02		mg/L		100	80 - 120		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-505921/103
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 19:29	1

Lab Sample ID: MB 480-505921/12
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 16:45	1

Lab Sample ID: MB 480-505921/122
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 19:51	1

Lab Sample ID: MB 480-505921/32
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:07	1

Lab Sample ID: MB 480-505921/43
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:11	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-505921/60
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:22	1

Lab Sample ID: MB 480-505921/67
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:28	1

Lab Sample ID: MB 480-505921/76
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:31	1

Lab Sample ID: MB 480-505921/83
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 17:38	1

Lab Sample ID: MB 480-505921/91
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/20/19 19:12	1

Lab Sample ID: LCS 480-505921/104
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.3		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-505921/123
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	45.4		mg/L		91	90 - 110		

Lab Sample ID: LCS 480-505921/13
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	45.3		mg/L		91	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-505921/33
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: LCS 480-505921/44
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: LCS 480-505921/61
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: LCS 480-505921/68
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCS 480-505921/77
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: LCS 480-505921/84
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.6		mg/L		101	90 - 110

Lab Sample ID: LCS 480-505921/92
Matrix: Water
Analysis Batch: 505921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	47.8		mg/L		96	90 - 110

Lab Sample ID: MB 480-506077/60
Matrix: Water
Analysis Batch: 506077

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/21/19 15:44	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-506077/61
Matrix: Water
Analysis Batch: 506077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.2		mg/L		108	90 - 110

Lab Sample ID: MB 480-506716/103
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/25/19 23:43	1

Lab Sample ID: MB 480-506716/115
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/25/19 23:51	1

Lab Sample ID: MB 480-506716/125
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/25/19 23:53	1

Lab Sample ID: MB 480-506716/191
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/26/19 02:56	1

Lab Sample ID: MB 480-506716/226
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/26/19 03:11	1

Lab Sample ID: MB 480-506716/236
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/26/19 03:18	1

Lab Sample ID: MB 480-506716/62
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/25/19 23:06	1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-506716/104
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: LCS 480-506716/116
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: LCS 480-506716/126
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: LCS 480-506716/192
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: LCS 480-506716/227
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: LCS 480-506716/237
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: LCS 480-506716/63
Matrix: Water
Analysis Batch: 506716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 480-162477-2 MS
Matrix: Water
Analysis Batch: 506716

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	62		20.0	82.4		mg/L		103	60 - 140

Method: 310.2 - Alkalinity

Lab Sample ID: 480-162477-1 DU
Matrix: Water
Analysis Batch: 506716

Client Sample ID: W-11-1ER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	120			127		mg/L				6	20

Lab Sample ID: 480-162477-3 DU
Matrix: Water
Analysis Batch: 506716

Client Sample ID: 1008ER2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	320			301		mg/L				6	20

Lab Sample ID: 480-162577-2 DU
Matrix: Ground Water
Analysis Batch: 506716

Client Sample ID: 106DR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	300			288		mg/L				3	20

Lab Sample ID: MB 480-506911/12
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 13:00	1

Lab Sample ID: MB 480-506911/21
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 13:25	1

Lab Sample ID: MB 480-506911/33
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 14:08	1

Lab Sample ID: MB 480-506911/42
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 14:29	1

Lab Sample ID: LCS 480-506911/13
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.3		mg/L		101	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-506911/22
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	49.8		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-506911/34
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.2		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-506911/43
Matrix: Water
Analysis Batch: 506911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.9		mg/L		102	90 - 110		

Lab Sample ID: 480-162641-3 MS
Matrix: Ground Water
Analysis Batch: 506911

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	100		20.0	108		mg/L		32	60 - 140		

Lab Sample ID: 480-162641-2 DU
Matrix: Ground Water
Analysis Batch: 506911

Client Sample ID: 107BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	340			336		mg/L				1	20

Lab Sample ID: MB 480-507085/69
Matrix: Water
Analysis Batch: 507085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 18:01	1

Lab Sample ID: MB 480-507085/79
Matrix: Water
Analysis Batch: 507085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/26/19 18:15	1

Lab Sample ID: LCS 480-507085/70
Matrix: Water
Analysis Batch: 507085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.9		mg/L		96	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-507085/80
Matrix: Water
Analysis Batch: 507085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: MB 480-507529/136
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			11/30/19 03:34	1

Lab Sample ID: MB 480-507529/159
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/01/19 09:25	1

Lab Sample ID: LCS 480-507529/134
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.8		mg/L		104	90 - 110

Lab Sample ID: LCS 480-507529/157
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: MB 480-507740/104
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 22:01	1

Lab Sample ID: MB 480-507740/117
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 22:14	1

Lab Sample ID: MB 480-507740/142
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 22:33	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-507740/151
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/02/19 22:36	1

Lab Sample ID: MB 480-507740/92
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/02/19 21:42	1

Lab Sample ID: LCS 480-507740/105
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.6		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-507740/114
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.0		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-507740/143
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.2		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-507740/152
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.4		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-507740/93
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.6		mg/L		103	90 - 110		

Lab Sample ID: MB 480-507954/112
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 19:43	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-507954/142
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 20:00	1

Lab Sample ID: MB 480-507954/43
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 18:34	1

Lab Sample ID: MB 480-507954/53
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 18:37	1

Lab Sample ID: MB 480-507954/67
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 18:58	1

Lab Sample ID: MB 480-507954/79
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 19:08	1

Lab Sample ID: MB 480-507954/92
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 19:12	1

Lab Sample ID: LCS 480-507954/113
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.6		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-507954/143
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	48.7		mg/L		97	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-507954/44
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.6		mg/L		101	90 - 110

Lab Sample ID: LCS 480-507954/54
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: LCS 480-507954/68
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.6		mg/L		109	90 - 110

Lab Sample ID: LCS 480-507954/80
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.7		mg/L		103	90 - 110

Lab Sample ID: LCS 480-507954/93
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.7		mg/L		101	90 - 110

Lab Sample ID: MB 480-508355/31
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/05/19 15:02	1

Lab Sample ID: MB 480-508355/45
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/05/19 15:13	1

Lab Sample ID: LCS 480-508355/32
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.4		mg/L		101	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-508355/46
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: MB 480-510700/104
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 16:58	1

Lab Sample ID: MB 480-510700/116
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 17:15	1

Lab Sample ID: MB 480-510700/28
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 15:52	1

Lab Sample ID: MB 480-510700/40
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 16:01	1

Lab Sample ID: MB 480-510700/64
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 16:26	1

Lab Sample ID: MB 480-510700/8
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/18/19 15:28	1

Lab Sample ID: LCS 480-510700/105
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.3		mg/L		103	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-510700/117
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-510700/29
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: LCS 480-510700/41
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: LCS 480-510700/65
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: LCS 480-510700/9
Matrix: Water
Analysis Batch: 510700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 480-163965-1 MS
Matrix: Ground Water
Analysis Batch: 510700

Client Sample ID: 1040B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	88		20.0	108		mg/L		100	60 - 140

Lab Sample ID: MB 480-511524/20
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0	mg/L			12/23/19 16:44	1

Lab Sample ID: MB 480-511524/28
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0	mg/L			12/23/19 16:54	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-511524/44
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/23/19 16:58	1

Lab Sample ID: LCS 480-511524/21
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	47.40		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-511524/29
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.53		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-511524/41
Matrix: Water
Analysis Batch: 511524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.83		mg/L		102	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-504675/3
Matrix: Water
Analysis Batch: 504675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/15/19 08:27	1

Lab Sample ID: LCS 480-504675/4
Matrix: Water
Analysis Batch: 504675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: MB 480-505139/27
Matrix: Water
Analysis Batch: 505139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 10:34	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-505139/28
Matrix: Water
Analysis Batch: 505139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.01		mg/L as N		101	90 - 110		

Lab Sample ID: 480-162477-4 MS
Matrix: Water
Analysis Batch: 505139

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.219		mg/L as N		110	90 - 110		

Lab Sample ID: 480-162477-4 DU
Matrix: Water
Analysis Batch: 505139

Client Sample ID: W11-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-505225/123
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 16:06	1

Lab Sample ID: MB 480-505225/75
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 15:25	1

Lab Sample ID: MB 480-505225/99
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/18/19 15:45	1

Lab Sample ID: LCS 480-505225/100
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.04		mg/L as N		104	90 - 110		

Lab Sample ID: LCS 480-505225/124
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-505225/76
Matrix: Water
Analysis Batch: 505225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110		

Lab Sample ID: 480-162382-3 MS
Matrix: Ground Water
Analysis Batch: 505225

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.029		0.200	0.261	*	mg/L as N		116	90 - 110		

Lab Sample ID: 480-162382-4 MS
Matrix: Ground Water
Analysis Batch: 505225

Client Sample ID: W11-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.236	*	mg/L as N		113	90 - 110		

Lab Sample ID: 480-162382-3 DU
Matrix: Ground Water
Analysis Batch: 505225

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	0.029			0.0255		mg/L as N				14	20

Lab Sample ID: 480-162382-4 DU
Matrix: Ground Water
Analysis Batch: 505225

Client Sample ID: W11-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-505408/123
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 11:04	1

Lab Sample ID: MB 480-505408/3
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 09:22	1

Lab Sample ID: MB 480-505408/75
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:23	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-505408/99
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/19/19 10:44	1

Lab Sample ID: LCS 480-505408/100
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.05		mg/L as N		105	90 - 110		

Lab Sample ID: LCS 480-505408/124
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.04		mg/L as N		104	90 - 110		

Lab Sample ID: LCS 480-505408/4
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.06		mg/L as N		106	90 - 110		

Lab Sample ID: LCS 480-505408/76
Matrix: Water
Analysis Batch: 505408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.05		mg/L as N		105	90 - 110		

Lab Sample ID: 480-162641-3 MS
Matrix: Ground Water
Analysis Batch: 505408

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.231	*	mg/L as N		116	90 - 110		

Lab Sample ID: MB 480-505633/123
Matrix: Water
Analysis Batch: 505633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 09:49	1

Lab Sample ID: MB 480-505633/27
Matrix: Water
Analysis Batch: 505633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 08:27	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-505633/124
Matrix: Water
Analysis Batch: 505633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: LCS 480-505633/28
Matrix: Water
Analysis Batch: 505633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Lab Sample ID: 480-162730-1 MS
Matrix: Ground Water
Analysis Batch: 505633

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	ND	U	0.200	0.209		mg/L as N		105	90 - 110		

Lab Sample ID: 480-162730-1 DU
Matrix: Ground Water
Analysis Batch: 505633

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia as N	ND	U		ND	U	mg/L as N				NC	20

Lab Sample ID: MB 480-505708/123
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:25	1

Lab Sample ID: MB 480-505708/27
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 12:03	1

Lab Sample ID: MB 480-505708/99
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:05	1

Lab Sample ID: LCS 480-505708/100
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-505708/124
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-505708/28
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: 480-162893-1 MS
Matrix: Ground Water
Analysis Batch: 505708

Client Sample ID: 104C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.264	*	mg/L as N		123	90 - 110

Lab Sample ID: MB 480-505988/27
Matrix: Water
Analysis Batch: 505988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			11/21/19 11:18	1

Lab Sample ID: MB 480-505988/3
Matrix: Water
Analysis Batch: 505988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			11/21/19 10:57	1

Lab Sample ID: LCS 480-505988/28
Matrix: Water
Analysis Batch: 505988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: LCS 480-505988/4
Matrix: Water
Analysis Batch: 505988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: MB 480-506187/51
Matrix: Water
Analysis Batch: 506187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			11/22/19 09:22	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-506187/52
Matrix: Water
Analysis Batch: 506187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: MB 480-507091/51
Matrix: Water
Analysis Batch: 507091

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/27/19 09:20	1

Lab Sample ID: MB 480-507091/75
Matrix: Water
Analysis Batch: 507091

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/27/19 09:41	1

Lab Sample ID: LCS 480-507091/52
Matrix: Water
Analysis Batch: 507091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: LCS 480-507091/76
Matrix: Water
Analysis Batch: 507091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.01		mg/L as N		101	90 - 110

Lab Sample ID: 480-163285-1 MS
Matrix: Ground Water
Analysis Batch: 507091

Client Sample ID: W12-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.235	*	mg/L as N		111	90 - 110

Lab Sample ID: 480-163285-1 DU
Matrix: Ground Water
Analysis Batch: 507091

Client Sample ID: W12-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	ND	U	ND	U	mg/L as N		NC	20

Lab Sample ID: MB 480-509620/3
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 14:35	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-509620/51
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 15:16	1

Lab Sample ID: MB 480-509620/75
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 15:37	1

Lab Sample ID: MB 480-509620/99
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			12/12/19 15:57	1

Lab Sample ID: LCS 480-509620/100
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.04		mg/L as N		104	90 - 110		

Lab Sample ID: LCS 480-509620/4
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.05		mg/L as N		105	90 - 110		

Lab Sample ID: LCS 480-509620/52
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.05		mg/L as N		105	90 - 110		

Lab Sample ID: LCS 480-509620/76
Matrix: Water
Analysis Batch: 509620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			1.00	1.04		mg/L as N		104	90 - 110		

Lab Sample ID: 480-163965-6 MS
Matrix: Ground Water
Analysis Batch: 509620

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	0.061		0.200	0.291	*	mg/L as N		115	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-163965-6 DU
Matrix: Ground Water
Analysis Batch: 509620

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	0.061		0.0596		mg/L as N		3	20

Lab Sample ID: MB 480-512498/3
Matrix: Water
Analysis Batch: 512498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020	mg/L as N			01/06/20 09:35	1

Lab Sample ID: LCS 480-512498/4
Matrix: Water
Analysis Batch: 512498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.06		mg/L as N		106	90 - 110

Lab Sample ID: 480-164496-2 MS
Matrix: Ground Water
Analysis Batch: 512498

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.210		mg/L as N		105	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-505770/3
Matrix: Water
Analysis Batch: 505770

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND	U	0.050	mg/L as N			11/20/19 15:26	1

Lab Sample ID: LCS 480-505770/4
Matrix: Water
Analysis Batch: 505770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	1.50	1.60		mg/L as N		107	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-508243/4
Matrix: Water
Analysis Batch: 508243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			12/04/19 17:05	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-508243/5
Matrix: Water
Analysis Batch: 508243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.3		mg/L		97	90 - 110

Lab Sample ID: 480-162953-3 MS
Matrix: Ground Water
Analysis Batch: 508243

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	45.1		mg/L		90	75 - 125

Lab Sample ID: MB 480-510899/28
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			12/18/19 17:02	1

Lab Sample ID: MB 480-510899/4
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			12/18/19 17:02	1

Lab Sample ID: LCS 480-510899/29
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.9		mg/L		104	90 - 110

Lab Sample ID: LCS 480-510899/5
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.5		mg/L		106	90 - 110

Lab Sample ID: 480-163965-2 MS
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: 1041B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	55.1		mg/L		93	75 - 125

Lab Sample ID: 480-163965-2 MSD
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: 1041B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND	U	50.0	54.8		mg/L		92	75 - 125	0	20

Method: 410.4 - COD

Lab Sample ID: 480-163965-3 MS
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: 618AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	55.7		mg/L		92	75 - 125

Lab Sample ID: 480-163965-5 MS
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	58.8		mg/L		100	75 - 125

Lab Sample ID: 480-163965-5 MSD
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND	U	50.0	55.8		mg/L		94	75 - 125	5	20

Lab Sample ID: 480-163965-8 MS
Matrix: Ground Water
Analysis Batch: 510899

Client Sample ID: W12-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND	U	50.0	50.0		mg/L		100	75 - 125

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-506078/181
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/21/19 18:33	1

Lab Sample ID: MB 480-506078/214
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/21/19 18:53	1

Lab Sample ID: MB 480-506078/247
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/21/19 19:14	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: MB 480-506078/283
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/21/19 19:42	1

Lab Sample ID: LCS 480-506078/182
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.9		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-506078/215
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.6		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-506078/248
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.5		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-506078/284
Matrix: Water
Analysis Batch: 506078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.4		mg/L		105	90 - 110		

Lab Sample ID: 480-162382-3 MS
Matrix: Ground Water
Analysis Batch: 506078

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	8.3		20.0	35.9	*	mg/L		138	60 - 128		

Lab Sample ID: 480-162382-3 MSD
Matrix: Ground Water
Analysis Batch: 506078

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	8.3		20.0	39.1	*	mg/L		154	60 - 128	9	20

Lab Sample ID: MB 480-506851/104
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/26/19 10:11	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-506851/136
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/26/19 10:27	1

Lab Sample ID: MB 480-506851/154
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/26/19 11:27	1

Lab Sample ID: MB 480-506851/37
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/26/19 09:37	1

Lab Sample ID: LCS 480-506851/105
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.6		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-506851/137
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.9		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-506851/155
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.7		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-506851/38
Matrix: Water
Analysis Batch: 506851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: 480-162327-1 MS
Matrix: Ground Water
Analysis Batch: 506851

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	17.4		mg/L		87	60 - 128		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-162327-1 MSD
Matrix: Ground Water
Analysis Batch: 506851

Client Sample ID: 620A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	12.9	*	mg/L		64	60 - 128	30	20

Lab Sample ID: MB 480-507196/100
Matrix: Water
Analysis Batch: 507196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/27/19 13:43	1

Lab Sample ID: MB 480-507196/40
Matrix: Water
Analysis Batch: 507196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/27/19 11:14	1

Lab Sample ID: LCS 480-507196/101
Matrix: Water
Analysis Batch: 507196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	28.7		mg/L		96	90 - 110		

Lab Sample ID: LCS 480-507196/41
Matrix: Water
Analysis Batch: 507196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.6		mg/L		102	90 - 110		

Lab Sample ID: 480-162730-1 MS
Matrix: Ground Water
Analysis Batch: 507196

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	12		20.0	31.6		mg/L		96	60 - 128		

Lab Sample ID: 480-162730-1 MSD
Matrix: Ground Water
Analysis Batch: 507196

Client Sample ID: 1134B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	12		20.0	31.4		mg/L		95	60 - 128	1	20

Lab Sample ID: 480-162730-2 MS
Matrix: Ground Water
Analysis Batch: 507196

Client Sample ID: W11-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	36.3	*	mg/L		165	60 - 128		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-162730-2 MSD
Matrix: Ground Water
Analysis Batch: 507196

Client Sample ID: W11-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	38.0	*	mg/L		173	60 - 128	5	20

Lab Sample ID: MB 480-507530/145
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/30/19 02:37	1

Lab Sample ID: MB 480-507530/179
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/30/19 03:49	1

Lab Sample ID: LCS 480-507530/180
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.8		mg/L		106	90 - 110		

Lab Sample ID: MB 480-507744/161
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 01:45	1

Lab Sample ID: MB 480-507744/195
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 02:08	1

Lab Sample ID: MB 480-507744/54
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/02/19 23:36	1

Lab Sample ID: MB 480-507744/66
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/02/19 23:46	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-507744/162
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	30.1		mg/L		100	90 - 110

Lab Sample ID: LCS 480-507744/196
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	30.7		mg/L		102	90 - 110

Lab Sample ID: LCS 480-507744/55
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	30.0		mg/L		100	90 - 110

Lab Sample ID: LCS 480-507744/67
Matrix: Water
Analysis Batch: 507744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	30.1		mg/L		100	90 - 110

Lab Sample ID: 480-162953-2 MS
Matrix: Ground Water
Analysis Batch: 507744

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20		20.0	ND	U *	mg/L		0	60 - 128

Lab Sample ID: 480-162953-2 MSD
Matrix: Ground Water
Analysis Batch: 507744

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	20		20.0	40.7		mg/L		105	60 - 128	NC	20

Lab Sample ID: MB 480-507958/118
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 15:21	1

Lab Sample ID: MB 480-507958/170
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 16:01	1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-507958/215
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 20:12	1

Lab Sample ID: MB 480-507958/274
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 21:40	1

Lab Sample ID: MB 480-507958/301
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 23:00	1

Lab Sample ID: MB 480-507958/80
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 15:02	1

Lab Sample ID: LCS 480-507958/119
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.2		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-507958/171
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-507958/216
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.2		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-507958/275
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.9		mg/L		106	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-507958/302
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	31.6		mg/L		105	90 - 110

Lab Sample ID: LCS 480-507958/81
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.2		mg/L		97	90 - 110

Lab Sample ID: 480-163033-1 MS
Matrix: Ground Water
Analysis Batch: 507958

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.7		20.0	35.2	*	mg/L		147	60 - 128

Lab Sample ID: 480-163033-1 MSD
Matrix: Ground Water
Analysis Batch: 507958

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.7		20.0	35.1	*	mg/L		147	60 - 128	0	20

Lab Sample ID: 480-163033-2 MS
Matrix: Ground Water
Analysis Batch: 507958

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND	U	20.0	37.3	*	mg/L		186	60 - 128

Lab Sample ID: 480-163033-2 MSD
Matrix: Ground Water
Analysis Batch: 507958

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	36.6	*	mg/L		183	60 - 128	2	20

Lab Sample ID: MB 480-508403/45
Matrix: Water
Analysis Batch: 508403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0	mg/L			12/05/19 11:42	1

Lab Sample ID: LCS 480-508403/46
Matrix: Water
Analysis Batch: 508403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	31.2		mg/L		104	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-162477-2 MS
Matrix: Water
Analysis Batch: 508403

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	7.2		20.0	32.1		mg/L		125	60 - 128		

Lab Sample ID: 480-162477-2 MSD
Matrix: Water
Analysis Batch: 508403

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.2		20.0	32.1		mg/L		125	60 - 128	0	20

Lab Sample ID: 480-162477-7 MS
Matrix: Water
Analysis Batch: 508403

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	8.7		20.0	36.2	*	mg/L		138	60 - 128		

Lab Sample ID: 480-162477-7 MSD
Matrix: Water
Analysis Batch: 508403

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	8.7		20.0	36.1	*	mg/L		137	60 - 128	0	20

Lab Sample ID: MB 480-508624/47
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/06/19 19:46	1

Lab Sample ID: MB 480-508624/59
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/06/19 20:00	1

Lab Sample ID: MB 480-508624/88
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/06/19 20:16	1

Lab Sample ID: LCS 480-508624/48
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: LCS 480-508624/60
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.7		mg/L		99	90 - 110

Lab Sample ID: LCS 480-508624/89
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.4		mg/L		98	90 - 110

Lab Sample ID: 480-162577-1 MS
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	29		20.0	49.7		mg/L		102	60 - 128

Lab Sample ID: 480-162577-1 MSD
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	29		20.0	49.0		mg/L		99	60 - 128	1	20

Lab Sample ID: 480-162577-4 MS
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	12		20.0	37.2		mg/L		124	60 - 128

Lab Sample ID: 480-162577-4 MSD
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	12		20.0	37.3		mg/L		124	60 - 128	0	20

Lab Sample ID: 480-163285-1 MS
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: W12-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	19		20.0	35.3		mg/L		82	60 - 128

Lab Sample ID: 480-163285-1 MSD
Matrix: Ground Water
Analysis Batch: 508624

Client Sample ID: W12-1E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	19		20.0	35.6		mg/L		84	60 - 128	1	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-510704/103
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/18/19 15:08	1

Lab Sample ID: MB 480-510704/13
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/18/19 12:49	1

Lab Sample ID: MB 480-510704/19
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/18/19 13:02	1

Lab Sample ID: MB 480-510704/53
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/18/19 14:13	1

Lab Sample ID: LCS 480-510704/104
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	30.8		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-510704/14
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	32.9		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-510704/20
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	32.8		mg/L		109	90 - 110		

Lab Sample ID: LCS 480-510704/54
Matrix: Water
Analysis Batch: 510704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.4		mg/L		105	90 - 110		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-511541/43
Matrix: Water
Analysis Batch: 511541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			12/23/19 17:19	1

Lab Sample ID: MB 480-511541/71
Matrix: Water
Analysis Batch: 511541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			12/23/19 17:29	1

Lab Sample ID: LCS 480-511541/44
Matrix: Water
Analysis Batch: 511541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.95		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-511541/72
Matrix: Water
Analysis Batch: 511541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.68		mg/L		99	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-505922/31
Matrix: Water
Analysis Batch: 505922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			11/20/19 19:05	1

Lab Sample ID: MB 480-505922/68
Matrix: Water
Analysis Batch: 505922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			11/20/19 20:02	1

Lab Sample ID: LCS 480-505922/32
Matrix: Water
Analysis Batch: 505922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.5		mg/L		106	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-505922/69
Matrix: Water
Analysis Batch: 505922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.1		mg/L		104	90 - 110

Lab Sample ID: MB 480-506076/266
Matrix: Water
Analysis Batch: 506076

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/21/19 15:50	1

Lab Sample ID: LCS 480-506076/267
Matrix: Water
Analysis Batch: 506076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.7		mg/L		107	90 - 110

Lab Sample ID: MB 480-506910/190
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/26/19 13:45	1

Lab Sample ID: MB 480-506910/200
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/26/19 13:53	1

Lab Sample ID: MB 480-506910/209
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/26/19 14:04	1

Lab Sample ID: LCS 480-506910/191
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.0		mg/L		108	90 - 110

Lab Sample ID: LCS 480-506910/201
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110

Method: 9251 - Chloride

Lab Sample ID: LCS 480-506910/210
Matrix: Water
Analysis Batch: 506910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110

Lab Sample ID: MB 480-507084/26
Matrix: Water
Analysis Batch: 507084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/26/19 16:53	1

Lab Sample ID: MB 480-507084/48
Matrix: Water
Analysis Batch: 507084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/26/19 17:15	1

Lab Sample ID: LCS 480-507084/27
Matrix: Water
Analysis Batch: 507084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.5		mg/L		106	90 - 110

Lab Sample ID: LCS 480-507084/49
Matrix: Water
Analysis Batch: 507084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.9		mg/L		108	90 - 110

Lab Sample ID: MB 480-507531/149
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/30/19 03:01	1

Lab Sample ID: MB 480-507531/163
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			11/30/19 03:42	1

Lab Sample ID: LCS 480-507531/148
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Method: 9251 - Chloride

Lab Sample ID: LCS 480-507531/162
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.5		mg/L		106	90 - 110

Lab Sample ID: MB 480-507743/188
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/03/19 01:46	1

Lab Sample ID: MB 480-507743/199
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/03/19 01:57	1

Lab Sample ID: LCS 480-507743/187
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110

Lab Sample ID: LCS 480-507743/198
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.4		mg/L		106	90 - 110

Lab Sample ID: 480-162953-2 MS
Matrix: Ground Water
Analysis Batch: 507743

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.5		20.0	24.0		mg/L		107	74 - 131

Lab Sample ID: 480-162953-2 MSD
Matrix: Ground Water
Analysis Batch: 507743

Client Sample ID: 628A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		20.0	24.4		mg/L		109	74 - 131	2	20

Lab Sample ID: 480-162953-3 MS
Matrix: Ground Water
Analysis Batch: 507743

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.5		20.0	24.0		mg/L		108	74 - 131

Method: 9251 - Chloride

Lab Sample ID: 480-162953-3 MSD
Matrix: Ground Water
Analysis Batch: 507743

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		20.0	25.5		mg/L		115	74 - 131	6	20

Lab Sample ID: MB 480-507957/180
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 19:47	1

Lab Sample ID: MB 480-507957/211
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 20:07	1

Lab Sample ID: MB 480-507957/274
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 21:29	1

Lab Sample ID: MB 480-507957/285
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 21:37	1

Lab Sample ID: MB 480-507957/291
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 21:43	1

Lab Sample ID: LCS 480-507957/179
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.6		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-507957/210
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: LCS 480-507957/273
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.8		mg/L		103	90 - 110

Lab Sample ID: LCS 480-507957/284
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110

Lab Sample ID: LCS 480-507957/290
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.2		mg/L		101	90 - 110

Lab Sample ID: 480-163033-1 MS
Matrix: Ground Water
Analysis Batch: 507957

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.6		20.0	23.3		mg/L		108	74 - 131

Lab Sample ID: 480-163033-1 MSD
Matrix: Ground Water
Analysis Batch: 507957

Client Sample ID: W12-4B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.6		20.0	23.7		mg/L		110	74 - 131	2	20

Lab Sample ID: 480-163033-2 MS
Matrix: Ground Water
Analysis Batch: 507957

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.0		20.0	22.5		mg/L		103	74 - 131

Lab Sample ID: 480-163033-2 MSD
Matrix: Ground Water
Analysis Batch: 507957

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.0		20.0	21.9		mg/L		100	74 - 131	2	20

Lab Sample ID: MB 480-508402/186
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 16:34	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-508402/198
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 17:14	1

Lab Sample ID: MB 480-508402/21
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 11:11	1

Lab Sample ID: MB 480-508402/32
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 11:16	1

Lab Sample ID: MB 480-508402/43
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 11:25	1

Lab Sample ID: LCS 480-508402/185
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	24.1		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-508402/197
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	23.7		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-508402/20
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-508402/31
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	27.0		mg/L		108	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: LCS 480-508402/42
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.5		mg/L		102	90 - 110		

Lab Sample ID: 480-162477-2 MS
Matrix: Water
Analysis Batch: 508402

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.1		20.0	22.8		mg/L		103	74 - 131		

Lab Sample ID: 480-162477-2 MSD
Matrix: Water
Analysis Batch: 508402

Client Sample ID: 1008BR2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.1		20.0	23.0		mg/L		104	74 - 131	1	20

Lab Sample ID: 480-162477-7 MS
Matrix: Water
Analysis Batch: 508402

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	0.65		20.0	20.5		mg/L		99	74 - 131		

Lab Sample ID: 480-162477-7 MSD
Matrix: Water
Analysis Batch: 508402

Client Sample ID: W12-4E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	0.65		20.0	22.0		mg/L		107	74 - 131	7	20

Lab Sample ID: MB 480-508623/21
Matrix: Water
Analysis Batch: 508623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/06/19 19:11	1

Lab Sample ID: MB 480-508623/79
Matrix: Water
Analysis Batch: 508623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/06/19 19:52	1

Lab Sample ID: LCS 480-508623/20
Matrix: Water
Analysis Batch: 508623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.4		mg/L		106	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: LCS 480-508623/78
Matrix: Water
Analysis Batch: 508623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.7		mg/L		107	90 - 110		

Lab Sample ID: 480-162577-1 MS
Matrix: Ground Water
Analysis Batch: 508623

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	6.8		20.0	26.4		mg/L		98	74 - 131		

Lab Sample ID: 480-162577-1 MSD
Matrix: Ground Water
Analysis Batch: 508623

Client Sample ID: 106CR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.8		20.0	26.8		mg/L		100	74 - 131	2	20

Lab Sample ID: MB 480-509179/165
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/10/19 17:36	1

Lab Sample ID: MB 480-509179/65
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/10/19 15:30	1

Lab Sample ID: MB 480-509179/74
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/10/19 15:37	1

Lab Sample ID: LCS 480-509179/164
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.3		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-509179/64
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.4		mg/L		106	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: LCS 480-509179/73
Matrix: Water
Analysis Batch: 509179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.1		mg/L		104	90 - 110

Lab Sample ID: MB 480-510703/66
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/18/19 15:57	1

Lab Sample ID: MB 480-510703/73
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/18/19 16:01	1

Lab Sample ID: MB 480-510703/86
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/18/19 16:06	1

Lab Sample ID: LCS 480-510703/65
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: LCS 480-510703/72
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: LCS 480-510703/85
Matrix: Water
Analysis Batch: 510703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: MB 480-511207/17
Matrix: Water
Analysis Batch: 511207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50	mg/L			12/20/19 15:55	1

Method: 9251 - Chloride

Lab Sample ID: MB 480-511207/29
Matrix: Water
Analysis Batch: 511207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/20/19 18:15	1

Lab Sample ID: LCS 480-511207/16
Matrix: Water
Analysis Batch: 511207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	25.8		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-511207/28
Matrix: Water
Analysis Batch: 511207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.1		mg/L		104	90 - 110		

Lab Sample ID: MB 480-511540/54
Matrix: Water
Analysis Batch: 511540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/23/19 19:46	1

Lab Sample ID: MB 480-511540/66
Matrix: Water
Analysis Batch: 511540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			12/23/19 19:50	1

Lab Sample ID: LCS 480-511540/53
Matrix: Water
Analysis Batch: 511540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.20		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-511540/65
Matrix: Water
Analysis Batch: 511540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.51		mg/L		106	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-504310/1
Matrix: Water
Analysis Batch: 504310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/13/19 16:33	1

Lab Sample ID: LCS 480-504310/2
Matrix: Water
Analysis Batch: 504310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	492		mg/L		98	85 - 115		

Lab Sample ID: MB 480-504512/1
Matrix: Water
Analysis Batch: 504512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/14/19 13:55	1

Lab Sample ID: LCS 480-504512/2
Matrix: Water
Analysis Batch: 504512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	475		mg/L		95	85 - 115		

Lab Sample ID: 480-162382-3 DU
Matrix: Ground Water
Analysis Batch: 504512

Client Sample ID: W11-5B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	140			139		mg/L				0.7	10

Lab Sample ID: MB 480-504514/1
Matrix: Water
Analysis Batch: 504514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/14/19 13:57	1

Lab Sample ID: LCS 480-504514/2
Matrix: Water
Analysis Batch: 504514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	450		mg/L		90	85 - 115		

Lab Sample ID: 480-162382-4 DU
Matrix: Ground Water
Analysis Batch: 504514

Client Sample ID: W11-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	84			81.0		mg/L				4	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-504745/1
Matrix: Water
Analysis Batch: 504745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/15/19 12:16	1

Lab Sample ID: LCS 480-504745/2
Matrix: Water
Analysis Batch: 504745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	485		mg/L		97	85 - 115		

Lab Sample ID: MB 480-505155/1
Matrix: Water
Analysis Batch: 505155

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/18/19 12:38	1

Lab Sample ID: LCS 480-505155/2
Matrix: Water
Analysis Batch: 505155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			501	490		mg/L		98	85 - 115		

Lab Sample ID: 480-162577-4 DU
Matrix: Ground Water
Analysis Batch: 505155

Client Sample ID: DUP-GW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	100			107		mg/L				5	10

Lab Sample ID: MB 480-505410/1
Matrix: Water
Analysis Batch: 505410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/19/19 11:58	1

Lab Sample ID: LCS 480-505410/2
Matrix: Water
Analysis Batch: 505410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	505		mg/L		101	85 - 115		

Lab Sample ID: 480-162641-3 DU
Matrix: Ground Water
Analysis Batch: 505410

Client Sample ID: W12-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	150			141		mg/L				3	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-505710/1
Matrix: Water
Analysis Batch: 505710

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/20/19 14:18	1

Lab Sample ID: LCS 480-505710/2
Matrix: Water
Analysis Batch: 505710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	529		mg/L		105	85 - 115		

Lab Sample ID: MB 480-506229/1
Matrix: Water
Analysis Batch: 506229

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/22/19 13:14	1

Lab Sample ID: LCS 480-506229/2
Matrix: Water
Analysis Batch: 506229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	464		mg/L		92	85 - 115		

Lab Sample ID: 480-162893-1 DU
Matrix: Ground Water
Analysis Batch: 506229

Client Sample ID: 104C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	89			95.0		mg/L				7	10

Lab Sample ID: MB 480-506236/1
Matrix: Water
Analysis Batch: 506236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/22/19 13:27	1

Lab Sample ID: LCS 480-506236/2
Matrix: Water
Analysis Batch: 506236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	483		mg/L		96	85 - 115		

Lab Sample ID: 480-162893-2 DU
Matrix: Ground Water
Analysis Batch: 506236

Client Sample ID: 104D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	60			62.0		mg/L				3	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-506626/1
Matrix: Water
Analysis Batch: 506626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/25/19 13:33	1

Lab Sample ID: LCS 480-506626/2
Matrix: Water
Analysis Batch: 506626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	490		mg/L		98	85 - 115		

Lab Sample ID: MB 480-506631/1
Matrix: Water
Analysis Batch: 506631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/25/19 13:38	1

Lab Sample ID: LCS 480-506631/2
Matrix: Water
Analysis Batch: 506631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	511		mg/L		102	85 - 115		

Lab Sample ID: 480-162893-7 DU
Matrix: Ground Water
Analysis Batch: 506631

Client Sample ID: DUP-GW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	140			137		mg/L				4	10

Lab Sample ID: MB 480-506865/1
Matrix: Water
Analysis Batch: 506865

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/26/19 13:50	1

Lab Sample ID: LCS 480-506865/2
Matrix: Water
Analysis Batch: 506865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	448		mg/L		89	85 - 115		

Lab Sample ID: 480-163033-2 DU
Matrix: Ground Water
Analysis Batch: 506865

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	170			169		mg/L				0.6	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-507641/1
Matrix: Water
Analysis Batch: 507641

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/02/19 12:13	1

Lab Sample ID: LCS 480-507641/2
Matrix: Water
Analysis Batch: 507641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	519		mg/L		103	85 - 115		

Lab Sample ID: MB 480-509802/1
Matrix: Water
Analysis Batch: 509802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/13/19 14:46	1

Lab Sample ID: LCS 480-509802/2
Matrix: Water
Analysis Batch: 509802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	466		mg/L		93	85 - 115		

Lab Sample ID: MB 480-509924/1
Matrix: Water
Analysis Batch: 509924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/14/19 13:53	1

Lab Sample ID: LCS 480-509924/2
Matrix: Water
Analysis Batch: 509924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	459		mg/L		92	85 - 115		

Lab Sample ID: 480-163965-5 DU
Matrix: Ground Water
Analysis Batch: 509924

Client Sample ID: 624B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	340			353		mg/L				3	10

Lab Sample ID: MB 480-510103/1
Matrix: Water
Analysis Batch: 510103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/16/19 13:36	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 480-510103/2
Matrix: Water
Analysis Batch: 510103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	479		mg/L		96	85 - 115		

Lab Sample ID: 480-163965-6 DU
Matrix: Ground Water
Analysis Batch: 510103

Client Sample ID: DUP-GW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	15			16.0		mg/L				6	10

Lab Sample ID: MB 480-511264/1
Matrix: Water
Analysis Batch: 511264

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/21/19 13:33	1

Lab Sample ID: LCS 480-511264/2
Matrix: Water
Analysis Batch: 511264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	508		mg/L		102	85 - 115		

Lab Sample ID: MB 480-511631/1
Matrix: Water
Analysis Batch: 511631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/24/19 10:29	1

Lab Sample ID: LCS 480-511631/2
Matrix: Water
Analysis Batch: 511631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	576		mg/L		115	85 - 115		

Lab Sample ID: 480-164496-2 DU
Matrix: Ground Water
Analysis Batch: 511631

Client Sample ID: W12-2E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	26			28.0		mg/L				7	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-504552/1
Matrix: Water
Analysis Batch: 504552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/14/19 15:39	1

Lab Sample ID: LCS 480-504552/2
Matrix: Water
Analysis Batch: 504552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			276	261		mg/L		95	88 - 110		

Lab Sample ID: MB 480-504795/1
Matrix: Water
Analysis Batch: 504795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/15/19 15:13	1

Lab Sample ID: LCS 480-504795/2
Matrix: Water
Analysis Batch: 504795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			265	262		mg/L		99	88 - 110		

Lab Sample ID: MB 480-505243/1
Matrix: Water
Analysis Batch: 505243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/18/19 19:31	1

Lab Sample ID: LCS 480-505243/2
Matrix: Water
Analysis Batch: 505243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			254	251		mg/L		99	88 - 110		

Lab Sample ID: 480-162477-1 DU
Matrix: Water
Analysis Batch: 505243

Client Sample ID: W-11-1ER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND	U		ND	U	mg/L				NC	10

Lab Sample ID: MB 480-505245/1
Matrix: Water
Analysis Batch: 505245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/18/19 19:43	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-505245/2
Matrix: Water
Analysis Batch: 505245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	275	265		mg/L		96	88 - 110

Lab Sample ID: MB 480-505440/1
Matrix: Water
Analysis Batch: 505440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/19/19 13:49	1

Lab Sample ID: LCS 480-505440/2
Matrix: Water
Analysis Batch: 505440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	240	228		mg/L		95	88 - 110

Lab Sample ID: 480-162577-3 DU
Matrix: Ground Water
Analysis Batch: 505440

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	4.00		mg/L		NC	10

Lab Sample ID: MB 480-505771/1
Matrix: Water
Analysis Batch: 505771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/20/19 15:53	1

Lab Sample ID: LCS 480-505771/2
Matrix: Water
Analysis Batch: 505771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	256	238		mg/L		93	88 - 110

Lab Sample ID: 480-162641-6 DU
Matrix: Ground Water
Analysis Batch: 505771

Client Sample ID: 310D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-506017/1
Matrix: Water
Analysis Batch: 506017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/21/19 15:02	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-506017/2
Matrix: Water
Analysis Batch: 506017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	277	276		mg/L		100	88 - 110

Lab Sample ID: MB 480-506234/1
Matrix: Water
Analysis Batch: 506234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/22/19 13:21	1

Lab Sample ID: LCS 480-506234/2
Matrix: Water
Analysis Batch: 506234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	268	261		mg/L		97	88 - 110

Lab Sample ID: 480-162893-3 DU
Matrix: Ground Water
Analysis Batch: 506234

Client Sample ID: 617A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	24		22.4		mg/L		9	10

Lab Sample ID: MB 480-506658/1
Matrix: Water
Analysis Batch: 506658

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/25/19 15:28	1

Lab Sample ID: LCS 480-506658/2
Matrix: Water
Analysis Batch: 506658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	266	253		mg/L		95	88 - 110

Lab Sample ID: 480-162953-3 DU
Matrix: Ground Water
Analysis Batch: 506658

Client Sample ID: TRANS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-506662/1
Matrix: Water
Analysis Batch: 506662

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/25/19 15:40	1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 480-506662/2
Matrix: Water
Analysis Batch: 506662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	250	245		mg/L		98	88 - 110

Lab Sample ID: MB 480-506909/1
Matrix: Water
Analysis Batch: 506909

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/26/19 15:41	1

Lab Sample ID: LCS 480-506909/2
Matrix: Water
Analysis Batch: 506909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	258	244		mg/L		95	88 - 110

Lab Sample ID: 480-163033-2 DU
Matrix: Ground Water
Analysis Batch: 506909

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND	U	ND	U	mg/L		NC	10

Lab Sample ID: MB 480-507371/1
Matrix: Water
Analysis Batch: 507371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			11/29/19 13:53	1

Lab Sample ID: LCS 480-507371/2
Matrix: Water
Analysis Batch: 507371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	260	255		mg/L		98	88 - 110

Lab Sample ID: MB 480-510161/1
Matrix: Water
Analysis Batch: 510161

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0	mg/L			12/16/19 20:14	1

Lab Sample ID: LCS 480-510161/2
Matrix: Water
Analysis Batch: 510161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	241	238		mg/L		99	88 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-510379/1
Matrix: Water
Analysis Batch: 510379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			12/17/19 14:56	1

Lab Sample ID: LCS 480-510379/2
Matrix: Water
Analysis Batch: 510379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			249	245		mg/L		98	88 - 110		

Lab Sample ID: MB 480-511438/1
Matrix: Water
Analysis Batch: 511438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0		mg/L			12/23/19 11:14	1

Lab Sample ID: LCS 480-511438/2
Matrix: Water
Analysis Batch: 511438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			268	244.0		mg/L		91	88 - 110		

Lab Sample ID: MB 480-511665/1
Matrix: Water
Analysis Batch: 511665

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0		mg/L			12/24/19 12:11	1

Lab Sample ID: LCS 480-511665/2
Matrix: Water
Analysis Batch: 511665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			268	266.4		mg/L		99	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-504833/29
Matrix: Water
Analysis Batch: 504833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/14/19 23:23	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MB 480-504833/53
Matrix: Water
Analysis Batch: 504833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/15/19 05:59	1

Lab Sample ID: LCS 480-504833/30
Matrix: Water
Analysis Batch: 504833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.6		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-504833/54
Matrix: Water
Analysis Batch: 504833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.9		mg/L		100	90 - 110		

Lab Sample ID: 480-162327-6 MS
Matrix: Ground Water
Analysis Batch: 504833

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U	44.0	46.8		mg/L		106	54 - 131		

Lab Sample ID: 480-162327-6 MSD
Matrix: Ground Water
Analysis Batch: 504833

Client Sample ID: 630B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	47.6		mg/L		108	54 - 131	2	20

Lab Sample ID: MB 480-504958/51
Matrix: Water
Analysis Batch: 504958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 01:19	1

Lab Sample ID: LCS 480-504958/52
Matrix: Water
Analysis Batch: 504958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.6		mg/L		99	90 - 110		

Lab Sample ID: MB 480-505249/27
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/17/19 04:00	1

Method: SM 5310C - TOC

Lab Sample ID: MB 480-505249/4
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/16/19 21:26	1

Lab Sample ID: MB 480-505249/51
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/17/19 10:38	1

Lab Sample ID: MB 480-505249/75
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/17/19 17:15	1

Lab Sample ID: LCS 480-505249/28
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.0		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-505249/5
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.9		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-505249/52
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	59.2		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-505249/76
Matrix: Water
Analysis Batch: 505249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.0		mg/L		100	90 - 110		

Lab Sample ID: 480-162577-3 MS
Matrix: Ground Water
Analysis Batch: 505249

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.6		44.0	48.1		mg/L		106	54 - 131		

Method: SM 5310C - TOC

Lab Sample ID: 480-162577-3 MSD
Matrix: Ground Water
Analysis Batch: 505249

Client Sample ID: 106WR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.6		44.0	48.9		mg/L		107	54 - 131	2	20

Lab Sample ID: MB 480-505746/4
Matrix: Water
Analysis Batch: 505746

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/18/19 21:57	1

Lab Sample ID: MB 480-505746/51
Matrix: Water
Analysis Batch: 505746

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/19/19 10:02	1

Lab Sample ID: LCS 480-505746/5
Matrix: Water
Analysis Batch: 505746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	57.2		mg/L		95	90 - 110		

Lab Sample ID: LCS 480-505746/52
Matrix: Water
Analysis Batch: 505746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	57.2		mg/L		95	90 - 110		

Lab Sample ID: 480-162641-4 MS
Matrix: Ground Water
Analysis Batch: 505746

Client Sample ID: DUP-GW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	ND	U	44.0	47.0		mg/L		106	54 - 131		

Lab Sample ID: 480-162641-4 MSD
Matrix: Ground Water
Analysis Batch: 505746

Client Sample ID: DUP-GW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND	U	44.0	47.8		mg/L		107	54 - 131	2	20

Lab Sample ID: MB 480-505923/27
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/20/19 22:56	1

Method: SM 5310C - TOC

Lab Sample ID: MB 480-505923/4
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/20/19 16:49	1

Lab Sample ID: LCS 480-505923/28
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.4		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-505923/5
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.2		mg/L		100	90 - 110		

Lab Sample ID: MB 480-506315/27
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 03:22	1

Lab Sample ID: MB 480-506315/4
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/21/19 21:15	1

Lab Sample ID: MB 480-506315/75
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 15:41	1

Lab Sample ID: LCS 480-506315/28
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.2		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-506315/5
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.1		mg/L		100	90 - 110		

Method: SM 5310C - TOC

Lab Sample ID: LCS 480-506315/76
Matrix: Water
Analysis Batch: 506315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	61.2		mg/L		102	90 - 110		

Lab Sample ID: 480-163033-2 MS
Matrix: Ground Water
Analysis Batch: 506315

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.2		44.0	48.7		mg/L		108	54 - 131		

Lab Sample ID: 480-163033-2 MSD
Matrix: Ground Water
Analysis Batch: 506315

Client Sample ID: W12-3E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2		44.0	48.7		mg/L		108	54 - 131	0	20

Lab Sample ID: MB 480-506871/4
Matrix: Water
Analysis Batch: 506871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 19:59	1

Lab Sample ID: LCS 480-506871/5
Matrix: Water
Analysis Batch: 506871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.9		mg/L		102	90 - 110		

Lab Sample ID: MB 480-507487/4
Matrix: Water
Analysis Batch: 507487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/29/19 13:28	1

Lab Sample ID: LCS 480-507487/5
Matrix: Water
Analysis Batch: 507487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.9		mg/L		101	90 - 110		

Lab Sample ID: MB 480-509834/55
Matrix: Water
Analysis Batch: 509834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			12/13/19 08:49	1

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Method: SM 5310C - TOC

Lab Sample ID: LCS 480-509834/56
Matrix: Water
Analysis Batch: 509834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	56.6		mg/L		94	90 - 110		

Lab Sample ID: LCSD 480-509834/78
Matrix: Water
Analysis Batch: 509834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			60.0	55.6		mg/L		93	90 - 110	2	20

Metals

Prep Batch: 503472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	3005A	
480-162327-2	620C	Total/NA	Ground Water	3005A	
480-162327-3	630E	Total/NA	Ground Water	3005A	
480-162327-4	629B	Total/NA	Ground Water	3005A	
480-162327-5	629E	Total/NA	Ground Water	3005A	
480-162327-6	630B	Total/NA	Ground Water	3005A	
MB 480-503472/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-503472/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 503784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	3005A	
480-162382-2	W11-4E	Total/NA	Ground Water	3005A	
480-162382-3	W11-5B	Total/NA	Ground Water	3005A	
480-162382-4	W11-5E	Total/NA	Ground Water	3005A	
MB 480-503784/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-503784/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 504043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	3005A	
480-162477-2	1008BR2	Total/NA	Water	3005A	
480-162477-3	1008ER2	Total/NA	Water	3005A	
480-162477-4	W11-2E	Total/NA	Water	3005A	
480-162477-5	627A	Total/NA	Water	3005A	
480-162477-6	310AW	Total/NA	Water	3005A	
480-162477-7	W12-4E	Total/NA	Water	3005A	
MB 480-504043/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-504043/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 504222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	3005A	
480-162477-2	1008BR2	Total/NA	Water	3005A	
480-162477-3	1008ER2	Total/NA	Water	3005A	
480-162477-4	W11-2E	Total/NA	Water	3005A	
480-162477-5	627A	Total/NA	Water	3005A	
480-162477-6	310AW	Total/NA	Water	3005A	
480-162477-7	W12-4E	Total/NA	Water	3005A	
MB 480-504222/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-504222/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 504375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	6010C	503472
480-162327-2	620C	Total/NA	Ground Water	6010C	503472
480-162327-3	630E	Total/NA	Ground Water	6010C	503472
480-162327-4	629B	Total/NA	Ground Water	6010C	503472
480-162327-5	629E	Total/NA	Ground Water	6010C	503472
480-162327-6	630B	Total/NA	Ground Water	6010C	503472
MB 480-503472/1-A	Method Blank	Total/NA	Water	6010C	503472

Metals (Continued)

Analysis Batch: 504375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-503472/2-A	Lab Control Sample	Total/NA	Water	6010C	503472

Prep Batch: 504493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	3005A	
480-162577-2	106DR	Total/NA	Ground Water	3005A	
480-162577-3	106WR	Total/NA	Ground Water	3005A	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	3005A	
MB 480-504493/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-504493/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-504493/24-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-162577-2 MS	106DR	Total/NA	Ground Water	3005A	
480-162577-2 MSD	106DR	Total/NA	Ground Water	3005A	

Prep Batch: 504560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	3005A	
480-162641-2	107BR	Total/NA	Ground Water	3005A	
480-162641-3	W12-1B	Total/NA	Ground Water	3005A	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	3005A	
480-162641-5	310C	Total/NA	Ground Water	3005A	
480-162641-6	310D	Total/NA	Ground Water	3005A	
MB 480-504560/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-504560/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-504560/20-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 504652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	6010C	504222
480-162477-2	1008BR2	Total/NA	Water	6010C	504222
480-162477-3	1008ER2	Total/NA	Water	6010C	504222
480-162477-4	W11-2E	Total/NA	Water	6010C	504222
480-162477-5	627A	Total/NA	Water	6010C	504222
480-162477-6	310AW	Total/NA	Water	6010C	504222
480-162477-7	W12-4E	Total/NA	Water	6010C	504222
MB 480-504222/1-A	Method Blank	Total/NA	Water	6010C	504222
LCS 480-504222/2-A	Lab Control Sample	Total/NA	Water	6010C	504222

Analysis Batch: 504894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	6010C	504560
480-162641-2	107BR	Total/NA	Ground Water	6010C	504560
480-162641-3	W12-1B	Total/NA	Ground Water	6010C	504560
480-162641-4	DUP-GW-02	Total/NA	Ground Water	6010C	504560
480-162641-5	310C	Total/NA	Ground Water	6010C	504560
480-162641-6	310D	Total/NA	Ground Water	6010C	504560
MB 480-504560/1-A	Method Blank	Total/NA	Water	6010C	504560
LCS 480-504560/2-A	Lab Control Sample	Total/NA	Water	6010C	504560
LCSD 480-504560/20-A	Lab Control Sample Dup	Total/NA	Water	6010C	504560

Metals

Analysis Batch: 504895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	6010C	504493
480-162577-2	106DR	Total/NA	Ground Water	6010C	504493
480-162577-3	106WR	Total/NA	Ground Water	6010C	504493
480-162577-4	DUP-GW-01	Total/NA	Ground Water	6010C	504493
MB 480-504493/1-A	Method Blank	Total/NA	Water	6010C	504493
LCS 480-504493/2-A	Lab Control Sample	Total/NA	Water	6010C	504493
LCSD 480-504493/24-A	Lab Control Sample Dup	Total/NA	Water	6010C	504493
480-162577-2 MS	106DR	Total/NA	Ground Water	6010C	504493
480-162577-2 MSD	106DR	Total/NA	Ground Water	6010C	504493

Prep Batch: 505016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	3005A	
480-162730-2	W11-3E	Total/NA	Ground Water	3005A	
MB 480-505016/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-505016/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-505016/25-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 505034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	6010C	504043
480-162477-2	1008BR2	Total/NA	Water	6010C	504043
480-162477-3	1008ER2	Total/NA	Water	6010C	504043
480-162477-4	W11-2E	Total/NA	Water	6010C	504043
480-162477-5	627A	Total/NA	Water	6010C	504043
480-162477-6	310AW	Total/NA	Water	6010C	504043
480-162477-7	W12-4E	Total/NA	Water	6010C	504043
MB 480-504043/1-A	Method Blank	Total/NA	Water	6010C	504043
LCS 480-504043/2-A	Lab Control Sample	Total/NA	Water	6010C	504043

Analysis Batch: 505336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	6010C	505016
480-162730-2	W11-3E	Total/NA	Ground Water	6010C	505016
MB 480-505016/1-A	Method Blank	Total/NA	Water	6010C	505016
LCS 480-505016/2-A	Lab Control Sample	Total/NA	Water	6010C	505016
LCSD 480-505016/25-A	Lab Control Sample Dup	Total/NA	Water	6010C	505016

Analysis Batch: 505547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	6010C	503784
480-162382-2	W11-4E	Total/NA	Ground Water	6010C	503784
480-162382-3	W11-5B	Total/NA	Ground Water	6010C	503784
480-162382-4	W11-5E	Total/NA	Ground Water	6010C	503784
MB 480-503784/1-A	Method Blank	Total/NA	Water	6010C	503784
LCS 480-503784/2-A	Lab Control Sample	Total/NA	Water	6010C	503784

Prep Batch: 505715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	3005A	
480-162893-2	104D	Total/NA	Ground Water	3005A	

Metals (Continued)

Prep Batch: 505715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-3	617A	Total/NA	Ground Water	3005A	
480-162893-4	617C	Total/NA	Ground Water	3005A	
480-162893-5	W9-1E	Total/NA	Ground Water	3005A	
480-162893-6	W9-2E	Total/NA	Ground Water	3005A	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	3005A	
MB 480-505715/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-505715/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-162893-1 MS	104C	Total/NA	Ground Water	3005A	
480-162893-1 MSD	104C	Total/NA	Ground Water	3005A	

Prep Batch: 505722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	3005A	
480-162953-2	628A	Total/NA	Ground Water	3005A	
480-162953-3	TRANS	Total/NA	Ground Water	3005A	
480-162953-4	W11-6E	Total/NA	Ground Water	3005A	
MB 480-505722/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-505722/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 506213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	3005A	
480-163033-2	W12-3E	Total/NA	Ground Water	3005A	
MB 480-506213/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-506213/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 506297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-3	W11-5B	Total/NA	Ground Water	3005A	
MB 480-506297/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-506297/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 506556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-3	W11-5B	Total/NA	Ground Water	6010C	506297
MB 480-506297/1-A	Method Blank	Total/NA	Water	6010C	506297
LCS 480-506297/2-A	Lab Control Sample	Total/NA	Water	6010C	506297

Analysis Batch: 506777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	6010C	506213
480-163033-2	W12-3E	Total/NA	Ground Water	6010C	506213
MB 480-506213/1-A	Method Blank	Total/NA	Water	6010C	506213
LCS 480-506213/2-A	Lab Control Sample	Total/NA	Water	6010C	506213

Prep Batch: 507008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	3005A	
MB 480-507008/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-507008/2-A	Lab Control Sample	Total/NA	Water	3005A	

Metals

Analysis Batch: 507456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	6010C	507008
MB 480-507008/1-A	Method Blank	Total/NA	Water	6010C	507008
LCS 480-507008/2-A	Lab Control Sample	Total/NA	Water	6010C	507008

Analysis Batch: 507461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	6010C	505722
480-162953-2	628A	Total/NA	Ground Water	6010C	505722
480-162953-3	TRANS	Total/NA	Ground Water	6010C	505722
480-162953-4	W11-6E	Total/NA	Ground Water	6010C	505722
MB 480-505722/1-A	Method Blank	Total/NA	Water	6010C	505722
LCS 480-505722/2-A	Lab Control Sample	Total/NA	Water	6010C	505722

Analysis Batch: 507580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	6010C	505715
480-162893-2	104D	Total/NA	Ground Water	6010C	505715
480-162893-3	617A	Total/NA	Ground Water	6010C	505715
480-162893-4	617C	Total/NA	Ground Water	6010C	505715
480-162893-5	W9-1E	Total/NA	Ground Water	6010C	505715
480-162893-6	W9-2E	Total/NA	Ground Water	6010C	505715
480-162893-7	DUP-GW-03	Total/NA	Ground Water	6010C	505715
MB 480-505715/1-A	Method Blank	Total/NA	Water	6010C	505715
LCS 480-505715/2-A	Lab Control Sample	Total/NA	Water	6010C	505715
480-162893-1 MS	104C	Total/NA	Ground Water	6010C	505715
480-162893-1 MSD	104C	Total/NA	Ground Water	6010C	505715

Prep Batch: 508390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	3005A	
MB 480-508390/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-508390/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-508390/15-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Prep Batch: 508465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-2	104D	Total/NA	Ground Water	3005A	
MB 480-508465/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-508465/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 508783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	6010C	508390
MB 480-508390/1-A	Method Blank	Total/NA	Water	6010C	508390
LCS 480-508390/2-A	Lab Control Sample	Total/NA	Water	6010C	508390
LCSD 480-508390/15-A	Lab Control Sample Dup	Total/NA	Water	6010C	508390

Analysis Batch: 508993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-2	104D	Total/NA	Ground Water	6010C	508465
MB 480-508465/1-A	Method Blank	Total/NA	Water	6010C	508465

Metals (Continued)

Analysis Batch: 508993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-508465/2-A	Lab Control Sample	Total/NA	Water	6010C	508465

Prep Batch: 509392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	3005A	
480-163965-2	1041B	Total/NA	Ground Water	3005A	
480-163965-3	618AR	Total/NA	Ground Water	3005A	
480-163965-4	618CR	Total/NA	Ground Water	3005A	
480-163965-5	624B	Total/NA	Ground Water	3005A	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	3005A	
480-163965-7	W11-1B	Total/NA	Ground Water	3005A	
480-163965-8	W12-5E	Total/NA	Ground Water	3005A	
MB 480-509392/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-509392/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 510482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	6010C	509392
480-163965-2	1041B	Total/NA	Ground Water	6010C	509392
480-163965-3	618AR	Total/NA	Ground Water	6010C	509392
480-163965-4	618CR	Total/NA	Ground Water	6010C	509392
480-163965-5	624B	Total/NA	Ground Water	6010C	509392
480-163965-6	DUP-GW-04	Total/NA	Ground Water	6010C	509392
480-163965-7	W11-1B	Total/NA	Ground Water	6010C	509392
480-163965-8	W12-5E	Total/NA	Ground Water	6010C	509392
MB 480-509392/1-A	Method Blank	Total/NA	Water	6010C	509392
LCS 480-509392/2-A	Lab Control Sample	Total/NA	Water	6010C	509392

Prep Batch: 511610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	3005A	
MB 480-511610/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-511610/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 511800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	6010C	511610
MB 480-511610/1-A	Method Blank	Total/NA	Water	6010C	511610
LCS 480-511610/2-A	Lab Control Sample	Total/NA	Water	6010C	511610

Prep Batch: 595989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	3010A	
480-162327-2	620C	Total/NA	Ground Water	3010A	
480-162327-3	630E	Total/NA	Ground Water	3010A	
480-162327-4	629B	Total/NA	Ground Water	3010A	
480-162327-5	629E	Total/NA	Ground Water	3010A	
480-162327-6	630B	Total/NA	Ground Water	3010A	
480-162382-1	101C	Total/NA	Ground Water	3010A	
480-162382-2	W11-4E	Total/NA	Ground Water	3010A	
480-162382-3	W11-5B	Total/NA	Ground Water	3010A	

Metals (Continued)

Prep Batch: 595989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-4	W11-5E	Total/NA	Ground Water	3010A	
MB 680-595989/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-595989/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-162327-4 MS	629B	Total/NA	Ground Water	3010A	
480-162327-4 MSD	629B	Total/NA	Ground Water	3010A	

Analysis Batch: 596510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	6020A	595989
480-162327-2	620C	Total/NA	Ground Water	6020A	595989
480-162327-3	630E	Total/NA	Ground Water	6020A	595989
480-162327-4	629B	Total/NA	Ground Water	6020A	595989
480-162327-5	629E	Total/NA	Ground Water	6020A	595989
480-162327-6	630B	Total/NA	Ground Water	6020A	595989
480-162382-1	101C	Total/NA	Ground Water	6020A	595989
480-162382-2	W11-4E	Total/NA	Ground Water	6020A	595989
480-162382-3	W11-5B	Total/NA	Ground Water	6020A	595989
480-162382-4	W11-5E	Total/NA	Ground Water	6020A	595989
MB 680-595989/1-A	Method Blank	Total/NA	Water	6020A	595989
LCS 680-595989/2-A	Lab Control Sample	Total/NA	Water	6020A	595989
480-162327-4 MS	629B	Total/NA	Ground Water	6020A	595989
480-162327-4 MSD	629B	Total/NA	Ground Water	6020A	595989

Prep Batch: 596746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	3010A	
480-162730-2	W11-3E	Total/NA	Ground Water	3010A	
MB 680-596746/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-596746/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 596997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	3010A	
480-162477-2	1008BR2	Total/NA	Water	3010A	
480-162477-3	1008ER2	Total/NA	Water	3010A	
480-162477-4	W11-2E	Total/NA	Water	3010A	
480-162477-5	627A	Total/NA	Water	3010A	
480-162477-6	310AW	Total/NA	Water	3010A	
480-162477-7	W12-4E	Total/NA	Water	3010A	
480-162577-1	106CR	Total/NA	Ground Water	3010A	
480-162577-2	106DR	Total/NA	Ground Water	3010A	
480-162577-3	106WR	Total/NA	Ground Water	3010A	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	3010A	
MB 680-596997/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-596997/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-162577-3 MS	106WR	Total/NA	Ground Water	3010A	
480-162577-3 MSD	106WR	Total/NA	Ground Water	3010A	

Analysis Batch: 597053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	6020A	596746

Metals (Continued)

Analysis Batch: 597053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-2	W11-3E	Total/NA	Ground Water	6020A	596746
MB 680-596746/1-A	Method Blank	Total/NA	Water	6020A	596746
LCS 680-596746/2-A	Lab Control Sample	Total/NA	Water	6020A	596746

Analysis Batch: 597249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	6020A	596997
480-162477-2	1008BR2	Total/NA	Water	6020A	596997
480-162477-3	1008ER2	Total/NA	Water	6020A	596997
480-162477-4	W11-2E	Total/NA	Water	6020A	596997
480-162477-5	627A	Total/NA	Water	6020A	596997
480-162477-6	310AW	Total/NA	Water	6020A	596997
480-162477-7	W12-4E	Total/NA	Water	6020A	596997
480-162577-1	106CR	Total/NA	Ground Water	6020A	596997
480-162577-2	106DR	Total/NA	Ground Water	6020A	596997
480-162577-3	106WR	Total/NA	Ground Water	6020A	596997
480-162577-4	DUP-GW-01	Total/NA	Ground Water	6020A	596997
MB 680-596997/1-A	Method Blank	Total/NA	Water	6020A	596997
LCS 680-596997/2-A	Lab Control Sample	Total/NA	Water	6020A	596997
480-162577-3 MS	106WR	Total/NA	Ground Water	6020A	596997
480-162577-3 MSD	106WR	Total/NA	Ground Water	6020A	596997

Prep Batch: 597372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	3010A	
480-162641-2	107BR	Total/NA	Ground Water	3010A	
480-162641-3	W12-1B	Total/NA	Ground Water	3010A	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	3010A	
480-162641-5	310C	Total/NA	Ground Water	3010A	
480-162641-6	310D	Total/NA	Ground Water	3010A	
480-162893-1	104C	Total/NA	Ground Water	3010A	
480-162893-2	104D	Total/NA	Ground Water	3010A	
480-162893-3	617A	Total/NA	Ground Water	3010A	
480-162893-4	617C	Total/NA	Ground Water	3010A	
480-162893-5	W9-1E	Total/NA	Ground Water	3010A	
480-162893-6	W9-2E	Total/NA	Ground Water	3010A	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	3010A	
480-162953-1	626B	Total/NA	Ground Water	3010A	
480-162953-2	628A	Total/NA	Ground Water	3010A	
480-162953-3	TRANS	Total/NA	Ground Water	3010A	
480-162953-4	W11-6E	Total/NA	Ground Water	3010A	
MB 680-597372/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-597372/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 597704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	6020A	597372
480-162641-2	107BR	Total/NA	Ground Water	6020A	597372
480-162641-3	W12-1B	Total/NA	Ground Water	6020A	597372
480-162641-4	DUP-GW-02	Total/NA	Ground Water	6020A	597372
480-162641-5	310C	Total/NA	Ground Water	6020A	597372

Metals (Continued)

Analysis Batch: 597704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-6	310D	Total/NA	Ground Water	6020A	597372
480-162893-1	104C	Total/NA	Ground Water	6020A	597372
480-162893-2	104D	Total/NA	Ground Water	6020A	597372
480-162893-3	617A	Total/NA	Ground Water	6020A	597372
480-162893-4	617C	Total/NA	Ground Water	6020A	597372
480-162893-5	W9-1E	Total/NA	Ground Water	6020A	597372
480-162893-6	W9-2E	Total/NA	Ground Water	6020A	597372
480-162893-7	DUP-GW-03	Total/NA	Ground Water	6020A	597372
480-162953-1	626B	Total/NA	Ground Water	6020A	597372
480-162953-2	628A	Total/NA	Ground Water	6020A	597372
480-162953-3	TRANS	Total/NA	Ground Water	6020A	597372
480-162953-4	W11-6E	Total/NA	Ground Water	6020A	597372
MB 680-597372/1-A	Method Blank	Total/NA	Water	6020A	597372
LCS 680-597372/2-A	Lab Control Sample	Total/NA	Water	6020A	597372

Prep Batch: 597770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	3010A	
480-163033-2	W12-3E	Total/NA	Ground Water	3010A	
MB 680-597770/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-597770/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 598010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	6020A	597770
480-163033-2	W12-3E	Total/NA	Ground Water	6020A	597770
MB 680-597770/1-A	Method Blank	Total/NA	Water	6020A	597770
LCS 680-597770/2-A	Lab Control Sample	Total/NA	Water	6020A	597770

Prep Batch: 598892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	3010A	
MB 680-598892/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-598892/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-163285-1 MS	W12-1E	Total/NA	Ground Water	3010A	
480-163285-1 MSD	W12-1E	Total/NA	Ground Water	3010A	

Analysis Batch: 599175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	6020A	598892
MB 680-598892/1-A	Method Blank	Total/NA	Water	6020A	598892
LCS 680-598892/2-A	Lab Control Sample	Total/NA	Water	6020A	598892
480-163285-1 MS	W12-1E	Total/NA	Ground Water	6020A	598892
480-163285-1 MSD	W12-1E	Total/NA	Ground Water	6020A	598892

Prep Batch: 601743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	3010A	
480-163965-3	618AR	Total/NA	Ground Water	3010A	
480-163965-4	618CR	Total/NA	Ground Water	3010A	
480-163965-5	624B	Total/NA	Ground Water	3010A	

Metals (Continued)

Prep Batch: 601743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-6	DUP-GW-04	Total/NA	Ground Water	3010A	
480-163965-7	W11-1B	Total/NA	Ground Water	3010A	
480-163965-8	W12-5E	Total/NA	Ground Water	3010A	
MB 680-601743/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-601743/2-A	Lab Control Sample	Total/NA	Water	3010A	
480-163965-3 MS	618AR	Total/NA	Ground Water	3010A	
480-163965-3 MSD	618AR	Total/NA	Ground Water	3010A	

Analysis Batch: 601922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	6020A	601743
480-163965-3	618AR	Total/NA	Ground Water	6020A	601743
480-163965-4	618CR	Total/NA	Ground Water	6020A	601743
480-163965-5	624B	Total/NA	Ground Water	6020A	601743
480-163965-6	DUP-GW-04	Total/NA	Ground Water	6020A	601743
480-163965-7	W11-1B	Total/NA	Ground Water	6020A	601743
480-163965-8	W12-5E	Total/NA	Ground Water	6020A	601743
MB 680-601743/1-A	Method Blank	Total/NA	Water	6020A	601743
LCS 680-601743/2-A	Lab Control Sample	Total/NA	Water	6020A	601743
480-163965-3 MS	618AR	Total/NA	Ground Water	6020A	601743
480-163965-3 MSD	618AR	Total/NA	Ground Water	6020A	601743

Prep Batch: 602296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-2	1041B	Total/NA	Ground Water	3010A	
MB 680-602296/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-602296/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 602720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-2	1041B	Total/NA	Ground Water	6020A	602296
MB 680-602296/1-A	Method Blank	Total/NA	Water	6020A	602296
LCS 680-602296/2-A	Lab Control Sample	Total/NA	Water	6020A	602296

Prep Batch: 603294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	3010A	
MB 680-603294/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-603294/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 603398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	6020A	603294
MB 680-603294/1-A	Method Blank	Total/NA	Water	6020A	603294
LCS 680-603294/2-A	Lab Control Sample	Total/NA	Water	6020A	603294

General Chemistry

Analysis Batch: 503343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	353.2	

General Chemistry (Continued)

Analysis Batch: 503343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-2	620C	Total/NA	Ground Water	353.2	
480-162327-3	630E	Total/NA	Ground Water	353.2	
480-162327-4	629B	Total/NA	Ground Water	353.2	
480-162327-5	629E	Total/NA	Ground Water	353.2	
480-162327-6	630B	Total/NA	Ground Water	353.2	

Analysis Batch: 503495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	353.2	
480-162382-2	W11-4E	Total/NA	Ground Water	353.2	
480-162382-3	W11-5B	Total/NA	Ground Water	353.2	
480-162382-4	W11-5E	Total/NA	Ground Water	353.2	

Analysis Batch: 504044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	353.2	
480-162477-2	1008BR2	Total/NA	Water	353.2	
480-162477-3	1008ER2	Total/NA	Water	353.2	
480-162477-4	W11-2E	Total/NA	Water	353.2	
480-162477-5	627A	Total/NA	Water	353.2	
480-162477-6	310AW	Total/NA	Water	353.2	
480-162477-7	W12-4E	Total/NA	Water	353.2	

Analysis Batch: 504310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	SM 2540C	
480-162327-2	620C	Total/NA	Ground Water	SM 2540C	
480-162327-3	630E	Total/NA	Ground Water	SM 2540C	
480-162327-4	629B	Total/NA	Ground Water	SM 2540C	
480-162327-5	629E	Total/NA	Ground Water	SM 2540C	
480-162327-6	630B	Total/NA	Ground Water	SM 2540C	
MB 480-504310/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-504310/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 504336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	353.2	
480-162577-2	106DR	Total/NA	Ground Water	353.2	
480-162577-3	106WR	Total/NA	Ground Water	353.2	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	353.2	

Analysis Batch: 504512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	SM 2540C	
480-162382-2	W11-4E	Total/NA	Ground Water	SM 2540C	
480-162382-3	W11-5B	Total/NA	Ground Water	SM 2540C	
MB 480-504512/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-504512/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162382-3 DU	W11-5B	Total/NA	Ground Water	SM 2540C	

General Chemistry

Analysis Batch: 504514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-4	W11-5E	Total/NA	Ground Water	SM 2540C	
MB 480-504514/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-504514/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162382-4 DU	W11-5E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 504552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	SM 2540D	
480-162327-2	620C	Total/NA	Ground Water	SM 2540D	
480-162327-3	630E	Total/NA	Ground Water	SM 2540D	
480-162327-4	629B	Total/NA	Ground Water	SM 2540D	
480-162327-5	629E	Total/NA	Ground Water	SM 2540D	
480-162327-6	630B	Total/NA	Ground Water	SM 2540D	
480-162382-1	101C	Total/NA	Ground Water	SM 2540D	
480-162382-2	W11-4E	Total/NA	Ground Water	SM 2540D	
MB 480-504552/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-504552/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 504567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	353.2	
480-162641-2	107BR	Total/NA	Ground Water	353.2	
480-162641-3	W12-1B	Total/NA	Ground Water	353.2	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	353.2	
480-162641-5	310C	Total/NA	Ground Water	353.2	
480-162641-6	310D	Total/NA	Ground Water	353.2	

Analysis Batch: 504675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	350.1	
480-162327-2	620C	Total/NA	Ground Water	350.1	
480-162327-3	630E	Total/NA	Ground Water	350.1	
480-162327-4	629B	Total/NA	Ground Water	350.1	
480-162327-5	629E	Total/NA	Ground Water	350.1	
480-162327-6	630B	Total/NA	Ground Water	350.1	
MB 480-504675/3	Method Blank	Total/NA	Water	350.1	
LCS 480-504675/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 504745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	SM 2540C	
480-162477-2	1008BR2	Total/NA	Water	SM 2540C	
480-162477-3	1008ER2	Total/NA	Water	SM 2540C	
480-162477-4	W11-2E	Total/NA	Water	SM 2540C	
480-162477-5	627A	Total/NA	Water	SM 2540C	
480-162477-6	310AW	Total/NA	Water	SM 2540C	
480-162477-7	W12-4E	Total/NA	Water	SM 2540C	
MB 480-504745/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-504745/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 504795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-3	W11-5B	Total/NA	Ground Water	SM 2540D	
480-162382-4	W11-5E	Total/NA	Ground Water	SM 2540D	
MB 480-504795/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-504795/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 504833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-2	620C	Total/NA	Ground Water	SM 5310C	
480-162327-3	630E	Total/NA	Ground Water	SM 5310C	
480-162327-4	629B	Total/NA	Ground Water	SM 5310C	
480-162327-5	629E	Total/NA	Ground Water	SM 5310C	
480-162327-6	630B	Total/NA	Ground Water	SM 5310C	
480-162382-1	101C	Total/NA	Ground Water	SM 5310C	
480-162382-2	W11-4E	Total/NA	Ground Water	SM 5310C	
480-162382-3	W11-5B	Total/NA	Ground Water	SM 5310C	
480-162382-4	W11-5E	Total/NA	Ground Water	SM 5310C	
MB 480-504833/29	Method Blank	Total/NA	Water	SM 5310C	
MB 480-504833/53	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-504833/30	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-504833/54	Lab Control Sample	Total/NA	Water	SM 5310C	
480-162327-6 MS	630B	Total/NA	Ground Water	SM 5310C	
480-162327-6 MSD	630B	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 504848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	353.2	
480-162730-2	W11-3E	Total/NA	Ground Water	353.2	

Analysis Batch: 504958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	SM 5310C	
480-162477-2	1008BR2	Total/NA	Water	SM 5310C	
480-162477-3	1008ER2	Total/NA	Water	SM 5310C	
480-162477-4	W11-2E	Total/NA	Water	SM 5310C	
480-162477-5	627A	Total/NA	Water	SM 5310C	
480-162477-6	310AW	Total/NA	Water	SM 5310C	
480-162477-7	W12-4E	Total/NA	Water	SM 5310C	
MB 480-504958/51	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-504958/52	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 505139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	350.1	
480-162477-2	1008BR2	Total/NA	Water	350.1	
480-162477-3	1008ER2	Total/NA	Water	350.1	
480-162477-4	W11-2E	Total/NA	Water	350.1	
480-162477-5	627A	Total/NA	Water	350.1	
480-162477-6	310AW	Total/NA	Water	350.1	
480-162477-7	W12-4E	Total/NA	Water	350.1	
MB 480-505139/27	Method Blank	Total/NA	Water	350.1	
LCS 480-505139/28	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 505139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-4 MS	W11-2E	Total/NA	Water	350.1	
480-162477-4 DU	W11-2E	Total/NA	Water	350.1	

Analysis Batch: 505155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	SM 2540C	
480-162577-2	106DR	Total/NA	Ground Water	SM 2540C	
480-162577-3	106WR	Total/NA	Ground Water	SM 2540C	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	SM 2540C	
MB 480-505155/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-505155/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162577-4 DU	DUP-GW-01	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 505225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	350.1	
480-162382-2	W11-4E	Total/NA	Ground Water	350.1	
480-162382-3	W11-5B	Total/NA	Ground Water	350.1	
480-162382-4	W11-5E	Total/NA	Ground Water	350.1	
MB 480-505225/123	Method Blank	Total/NA	Water	350.1	
MB 480-505225/75	Method Blank	Total/NA	Water	350.1	
MB 480-505225/99	Method Blank	Total/NA	Water	350.1	
LCS 480-505225/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505225/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505225/76	Lab Control Sample	Total/NA	Water	350.1	
480-162382-3 MS	W11-5B	Total/NA	Ground Water	350.1	
480-162382-4 MS	W11-5E	Total/NA	Ground Water	350.1	
480-162382-3 DU	W11-5B	Total/NA	Ground Water	350.1	
480-162382-4 DU	W11-5E	Total/NA	Ground Water	350.1	

Analysis Batch: 505243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	SM 2540D	
480-162477-2	1008BR2	Total/NA	Water	SM 2540D	
480-162477-3	1008ER2	Total/NA	Water	SM 2540D	
480-162477-4	W11-2E	Total/NA	Water	SM 2540D	
480-162477-5	627A	Total/NA	Water	SM 2540D	
480-162477-6	310AW	Total/NA	Water	SM 2540D	
480-162477-7	W12-4E	Total/NA	Water	SM 2540D	
MB 480-505243/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-505243/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-162477-1 DU	W-11-1ER	Total/NA	Water	SM 2540D	

Analysis Batch: 505245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	SM 2540D	
480-162577-2	106DR	Total/NA	Ground Water	SM 2540D	
MB 480-505245/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-505245/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 505249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	SM 5310C	
480-162577-1	106CR	Total/NA	Ground Water	SM 5310C	
480-162577-2	106DR	Total/NA	Ground Water	SM 5310C	
480-162577-3	106WR	Total/NA	Ground Water	SM 5310C	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	SM 5310C	
480-162641-2	107BR	Total/NA	Ground Water	SM 5310C	
MB 480-505249/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505249/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505249/51	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505249/75	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-505249/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505249/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505249/52	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505249/76	Lab Control Sample	Total/NA	Water	SM 5310C	
480-162577-3 MS	106WR	Total/NA	Ground Water	SM 5310C	
480-162577-3 MSD	106WR	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 505408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	350.1	
480-162577-2	106DR	Total/NA	Ground Water	350.1	
480-162577-3	106WR	Total/NA	Ground Water	350.1	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	350.1	
480-162641-1	107CR	Total/NA	Ground Water	350.1	
480-162641-2	107BR	Total/NA	Ground Water	350.1	
480-162641-3	W12-1B	Total/NA	Ground Water	350.1	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	350.1	
480-162641-5	310C	Total/NA	Ground Water	350.1	
480-162641-6	310D	Total/NA	Ground Water	350.1	
MB 480-505408/123	Method Blank	Total/NA	Water	350.1	
MB 480-505408/3	Method Blank	Total/NA	Water	350.1	
MB 480-505408/75	Method Blank	Total/NA	Water	350.1	
MB 480-505408/99	Method Blank	Total/NA	Water	350.1	
LCS 480-505408/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505408/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505408/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505408/76	Lab Control Sample	Total/NA	Water	350.1	
480-162641-3 MS	W12-1B	Total/NA	Ground Water	350.1	

Analysis Batch: 505410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	SM 2540C	
480-162641-2	107BR	Total/NA	Ground Water	SM 2540C	
480-162641-3	W12-1B	Total/NA	Ground Water	SM 2540C	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	SM 2540C	
480-162641-5	310C	Total/NA	Ground Water	SM 2540C	
480-162641-6	310D	Total/NA	Ground Water	SM 2540C	
MB 480-505410/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-505410/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162641-3 DU	W12-1B	Total/NA	Ground Water	SM 2540C	

General Chemistry

Analysis Batch: 505440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-3	106WR	Total/NA	Ground Water	SM 2540D	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	SM 2540D	
MB 480-505440/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-505440/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-162577-3 DU	106WR	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 505524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	353.2	
480-162893-2	104D	Total/NA	Ground Water	353.2	
480-162893-3	617A	Total/NA	Ground Water	353.2	
480-162893-4	617C	Total/NA	Ground Water	353.2	
480-162893-5	W9-1E	Total/NA	Ground Water	353.2	
480-162893-6	W9-2E	Total/NA	Ground Water	353.2	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	353.2	

Analysis Batch: 505633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	350.1	
480-162730-2	W11-3E	Total/NA	Ground Water	350.1	
MB 480-505633/123	Method Blank	Total/NA	Water	350.1	
MB 480-505633/27	Method Blank	Total/NA	Water	350.1	
LCS 480-505633/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505633/28	Lab Control Sample	Total/NA	Water	350.1	
480-162730-1 MS	1134B	Total/NA	Ground Water	350.1	
480-162730-1 DU	1134B	Total/NA	Ground Water	350.1	

Analysis Batch: 505708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	350.1	
480-162893-2	104D	Total/NA	Ground Water	350.1	
480-162893-3	617A	Total/NA	Ground Water	350.1	
480-162893-4	617C	Total/NA	Ground Water	350.1	
480-162893-5	W9-1E	Total/NA	Ground Water	350.1	
480-162893-6	W9-2E	Total/NA	Ground Water	350.1	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	350.1	
MB 480-505708/123	Method Blank	Total/NA	Water	350.1	
MB 480-505708/27	Method Blank	Total/NA	Water	350.1	
MB 480-505708/99	Method Blank	Total/NA	Water	350.1	
LCS 480-505708/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505708/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505708/28	Lab Control Sample	Total/NA	Water	350.1	
480-162893-1 MS	104C	Total/NA	Ground Water	350.1	

Analysis Batch: 505710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	SM 2540C	
480-162730-2	W11-3E	Total/NA	Ground Water	SM 2540C	
MB 480-505710/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-505710/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 505746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-3	W12-1B	Total/NA	Ground Water	SM 5310C	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	SM 5310C	
480-162641-5	310C	Total/NA	Ground Water	SM 5310C	
480-162641-6	310D	Total/NA	Ground Water	SM 5310C	
480-162730-1	1134B	Total/NA	Ground Water	SM 5310C	
480-162730-2	W11-3E	Total/NA	Ground Water	SM 5310C	
MB 480-505746/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505746/51	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-505746/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505746/52	Lab Control Sample	Total/NA	Water	SM 5310C	
480-162641-4 MS	DUP-GW-02	Total/NA	Ground Water	SM 5310C	
480-162641-4 MSD	DUP-GW-02	Total/NA	Ground Water	SM 5310C	

Analysis Batch: 505770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-3	TRANS	Total/NA	Ground Water	353.2	
MB 480-505770/3	Method Blank	Total/NA	Water	353.2	
LCS 480-505770/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 505771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	SM 2540D	
480-162641-2	107BR	Total/NA	Ground Water	SM 2540D	
480-162641-3	W12-1B	Total/NA	Ground Water	SM 2540D	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	SM 2540D	
480-162641-5	310C	Total/NA	Ground Water	SM 2540D	
480-162641-6	310D	Total/NA	Ground Water	SM 2540D	
MB 480-505771/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-505771/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-162641-6 DU	310D	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 505785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	353.2	
480-162953-2	628A	Total/NA	Ground Water	353.2	
480-162953-3	TRANS	Total/NA	Ground Water	353.2	
480-162953-4	W11-6E	Total/NA	Ground Water	353.2	

Analysis Batch: 505921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-2	620C	Total/NA	Ground Water	310.2	
480-162327-3	630E	Total/NA	Ground Water	310.2	
480-162327-4	629B	Total/NA	Ground Water	310.2	
480-162327-5	629E	Total/NA	Ground Water	310.2	
480-162327-6	630B	Total/NA	Ground Water	310.2	
480-162382-1	101C	Total/NA	Ground Water	310.2	
480-162382-2	W11-4E	Total/NA	Ground Water	310.2	
480-162382-3	W11-5B	Total/NA	Ground Water	310.2	
480-162382-4	W11-5E	Total/NA	Ground Water	310.2	
MB 480-505921/103	Method Blank	Total/NA	Water	310.2	
MB 480-505921/12	Method Blank	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 505921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-505921/122	Method Blank	Total/NA	Water	310.2	
MB 480-505921/32	Method Blank	Total/NA	Water	310.2	
MB 480-505921/43	Method Blank	Total/NA	Water	310.2	
MB 480-505921/60	Method Blank	Total/NA	Water	310.2	
MB 480-505921/67	Method Blank	Total/NA	Water	310.2	
MB 480-505921/76	Method Blank	Total/NA	Water	310.2	
MB 480-505921/83	Method Blank	Total/NA	Water	310.2	
MB 480-505921/91	Method Blank	Total/NA	Water	310.2	
LCS 480-505921/104	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/123	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/33	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/44	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/61	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/68	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/77	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/84	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-505921/92	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 505922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-2	620C	Total/NA	Ground Water	9251	
480-162327-3	630E	Total/NA	Ground Water	9251	
480-162327-4	629B	Total/NA	Ground Water	9251	
480-162327-5	629E	Total/NA	Ground Water	9251	
480-162327-6	630B	Total/NA	Ground Water	9251	
480-162382-1	101C	Total/NA	Ground Water	9251	
480-162382-2	W11-4E	Total/NA	Ground Water	9251	
480-162382-3	W11-5B	Total/NA	Ground Water	9251	
480-162382-4	W11-5E	Total/NA	Ground Water	9251	
MB 480-505922/31	Method Blank	Total/NA	Water	9251	
MB 480-505922/68	Method Blank	Total/NA	Water	9251	
LCS 480-505922/32	Lab Control Sample	Total/NA	Water	9251	
LCS 480-505922/69	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 505923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	SM 5310C	
480-162893-1	104C	Total/NA	Ground Water	SM 5310C	
480-162893-2	104D	Total/NA	Ground Water	SM 5310C	
480-162893-3	617A	Total/NA	Ground Water	SM 5310C	
480-162893-4	617C	Total/NA	Ground Water	SM 5310C	
480-162893-5	W9-1E	Total/NA	Ground Water	SM 5310C	
480-162893-6	W9-2E	Total/NA	Ground Water	SM 5310C	
MB 480-505923/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505923/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-505923/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505923/5	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 505988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	350.1	
480-162953-2	628A	Total/NA	Ground Water	350.1	
480-162953-3	TRANS	Total/NA	Ground Water	350.1	
480-162953-4	W11-6E	Total/NA	Ground Water	350.1	
MB 480-505988/27	Method Blank	Total/NA	Water	350.1	
MB 480-505988/3	Method Blank	Total/NA	Water	350.1	
LCS 480-505988/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505988/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 506017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	SM 2540D	
480-162730-2	W11-3E	Total/NA	Ground Water	SM 2540D	
MB 480-506017/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506017/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 506076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	9251	
MB 480-506076/266	Method Blank	Total/NA	Water	9251	
LCS 480-506076/267	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 506077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	310.2	
MB 480-506077/60	Method Blank	Total/NA	Water	310.2	
LCS 480-506077/61	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 506078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-2	620C	Total/NA	Ground Water	9038	
480-162327-3	630E	Total/NA	Ground Water	9038	
480-162327-4	629B	Total/NA	Ground Water	9038	
480-162327-5	629E	Total/NA	Ground Water	9038	
480-162327-6	630B	Total/NA	Ground Water	9038	
480-162382-1	101C	Total/NA	Ground Water	9038	
480-162382-2	W11-4E	Total/NA	Ground Water	9038	
480-162382-3	W11-5B	Total/NA	Ground Water	9038	
MB 480-506078/181	Method Blank	Total/NA	Water	9038	
MB 480-506078/214	Method Blank	Total/NA	Water	9038	
MB 480-506078/247	Method Blank	Total/NA	Water	9038	
MB 480-506078/283	Method Blank	Total/NA	Water	9038	
LCS 480-506078/182	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506078/215	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506078/248	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506078/284	Lab Control Sample	Total/NA	Water	9038	
480-162382-3 MS	W11-5B	Total/NA	Ground Water	9038	
480-162382-3 MSD	W11-5B	Total/NA	Ground Water	9038	

General Chemistry

Analysis Batch: 506081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	353.2	
480-163033-2	W12-3E	Total/NA	Ground Water	353.2	

Analysis Batch: 506187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	350.1	
480-163033-2	W12-3E	Total/NA	Ground Water	350.1	
MB 480-506187/51	Method Blank	Total/NA	Water	350.1	
LCS 480-506187/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 506229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	SM 2540C	
MB 480-506229/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506229/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162893-1 DU	104C	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 506234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-3	617A	Total/NA	Ground Water	SM 2540D	
MB 480-506234/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506234/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-162893-3 DU	617A	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 506236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-2	104D	Total/NA	Ground Water	SM 2540C	
480-162893-3	617A	Total/NA	Ground Water	SM 2540C	
480-162893-4	617C	Total/NA	Ground Water	SM 2540C	
480-162893-5	W9-1E	Total/NA	Ground Water	SM 2540C	
480-162893-6	W9-2E	Total/NA	Ground Water	SM 2540C	
MB 480-506236/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506236/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162893-2 DU	104D	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 506315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-7	DUP-GW-03	Total/NA	Ground Water	SM 5310C	
480-162953-1	626B	Total/NA	Ground Water	SM 5310C	
480-162953-2	628A	Total/NA	Ground Water	SM 5310C	
480-162953-3	TRANS	Total/NA	Ground Water	SM 5310C	
480-162953-4	W11-6E	Total/NA	Ground Water	SM 5310C	
480-163033-2	W12-3E	Total/NA	Ground Water	SM 5310C	
MB 480-506315/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-506315/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-506315/75	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-506315/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-506315/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-506315/76	Lab Control Sample	Total/NA	Water	SM 5310C	
480-163033-2 MS	W12-3E	Total/NA	Ground Water	SM 5310C	
480-163033-2 MSD	W12-3E	Total/NA	Ground Water	SM 5310C	

General Chemistry

Analysis Batch: 506626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	SM 2540C	
480-162953-2	628A	Total/NA	Ground Water	SM 2540C	
480-162953-3	TRANS	Total/NA	Ground Water	SM 2540C	
480-162953-4	W11-6E	Total/NA	Ground Water	SM 2540C	
MB 480-506626/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506626/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-7	DUP-GW-03	Total/NA	Ground Water	SM 2540C	
MB 480-506631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506631/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-162893-7 DU	DUP-GW-03	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 506658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	SM 2540D	
480-162893-2	104D	Total/NA	Ground Water	SM 2540D	
480-162893-4	617C	Total/NA	Ground Water	SM 2540D	
480-162893-5	W9-1E	Total/NA	Ground Water	SM 2540D	
480-162893-6	W9-2E	Total/NA	Ground Water	SM 2540D	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	SM 2540D	
480-162953-1	626B	Total/NA	Ground Water	SM 2540D	
480-162953-2	628A	Total/NA	Ground Water	SM 2540D	
480-162953-3	TRANS	Total/NA	Ground Water	SM 2540D	
MB 480-506658/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506658/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-162953-3 DU	TRANS	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 506662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-4	W11-6E	Total/NA	Ground Water	SM 2540D	
MB 480-506662/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506662/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 506716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	310.2	
480-162477-2	1008BR2	Total/NA	Water	310.2	
480-162477-3	1008ER2	Total/NA	Water	310.2	
480-162477-4	W11-2E	Total/NA	Water	310.2	
480-162477-5	627A	Total/NA	Water	310.2	
480-162477-6	310AW	Total/NA	Water	310.2	
480-162477-7	W12-4E	Total/NA	Water	310.2	
480-162577-1	106CR	Total/NA	Ground Water	310.2	
480-162577-2	106DR	Total/NA	Ground Water	310.2	
480-162577-3	106WR	Total/NA	Ground Water	310.2	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	310.2	
MB 480-506716/103	Method Blank	Total/NA	Water	310.2	
MB 480-506716/115	Method Blank	Total/NA	Water	310.2	
MB 480-506716/125	Method Blank	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 506716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-506716/191	Method Blank	Total/NA	Water	310.2	
MB 480-506716/226	Method Blank	Total/NA	Water	310.2	
MB 480-506716/236	Method Blank	Total/NA	Water	310.2	
MB 480-506716/62	Method Blank	Total/NA	Water	310.2	
LCS 480-506716/104	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/116	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/126	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/192	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/227	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/237	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506716/63	Lab Control Sample	Total/NA	Water	310.2	
480-162477-2 MS	1008BR2	Total/NA	Water	310.2	
480-162477-1 DU	W-11-1ER	Total/NA	Water	310.2	
480-162477-3 DU	1008ER2	Total/NA	Water	310.2	
480-162577-2 DU	106DR	Total/NA	Ground Water	310.2	

Analysis Batch: 506851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	9038	
480-162382-4	W11-5E	Total/NA	Ground Water	9038	
480-162641-1	107CR	Total/NA	Ground Water	9038	
480-162641-3	W12-1B	Total/NA	Ground Water	9038	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	9038	
480-162641-5	310C	Total/NA	Ground Water	9038	
480-162641-6	310D	Total/NA	Ground Water	9038	
MB 480-506851/104	Method Blank	Total/NA	Water	9038	
MB 480-506851/136	Method Blank	Total/NA	Water	9038	
MB 480-506851/154	Method Blank	Total/NA	Water	9038	
MB 480-506851/37	Method Blank	Total/NA	Water	9038	
LCS 480-506851/105	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506851/137	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506851/155	Lab Control Sample	Total/NA	Water	9038	
LCS 480-506851/38	Lab Control Sample	Total/NA	Water	9038	
480-162327-1 MS	620A	Total/NA	Ground Water	9038	
480-162327-1 MSD	620A	Total/NA	Ground Water	9038	

Analysis Batch: 506865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	SM 2540C	
480-163033-2	W12-3E	Total/NA	Ground Water	SM 2540C	
MB 480-506865/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506865/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-163033-2 DU	W12-3E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 506871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	SM 5310C	
MB 480-506871/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-506871/5	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 506909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163033-1	W12-4B	Total/NA	Ground Water	SM 2540D	
480-163033-2	W12-3E	Total/NA	Ground Water	SM 2540D	
MB 480-506909/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506909/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-163033-2 DU	W12-3E	Total/NA	Ground Water	SM 2540D	

Analysis Batch: 506910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	9251	
480-162641-2	107BR	Total/NA	Ground Water	9251	
480-162641-3	W12-1B	Total/NA	Ground Water	9251	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	9251	
480-162641-5	310C	Total/NA	Ground Water	9251	
480-162641-6	310D	Total/NA	Ground Water	9251	
MB 480-506910/190	Method Blank	Total/NA	Water	9251	
MB 480-506910/200	Method Blank	Total/NA	Water	9251	
MB 480-506910/209	Method Blank	Total/NA	Water	9251	
LCS 480-506910/191	Lab Control Sample	Total/NA	Water	9251	
LCS 480-506910/201	Lab Control Sample	Total/NA	Water	9251	
LCS 480-506910/210	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 506911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-1	107CR	Total/NA	Ground Water	310.2	
480-162641-2	107BR	Total/NA	Ground Water	310.2	
480-162641-3	W12-1B	Total/NA	Ground Water	310.2	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	310.2	
480-162641-5	310C	Total/NA	Ground Water	310.2	
MB 480-506911/12	Method Blank	Total/NA	Water	310.2	
MB 480-506911/21	Method Blank	Total/NA	Water	310.2	
MB 480-506911/33	Method Blank	Total/NA	Water	310.2	
MB 480-506911/42	Method Blank	Total/NA	Water	310.2	
LCS 480-506911/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506911/22	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506911/34	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-506911/43	Lab Control Sample	Total/NA	Water	310.2	
480-162641-3 MS	W12-1B	Total/NA	Ground Water	310.2	
480-162641-2 DU	107BR	Total/NA	Ground Water	310.2	

Analysis Batch: 506943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	353.2	

Analysis Batch: 507084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	9251	
480-162730-2	W11-3E	Total/NA	Ground Water	9251	
MB 480-507084/26	Method Blank	Total/NA	Water	9251	
MB 480-507084/48	Method Blank	Total/NA	Water	9251	
LCS 480-507084/27	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507084/49	Lab Control Sample	Total/NA	Water	9251	

General Chemistry

Analysis Batch: 507085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	310.2	
480-162730-2	W11-3E	Total/NA	Ground Water	310.2	
MB 480-507085/69	Method Blank	Total/NA	Water	310.2	
MB 480-507085/79	Method Blank	Total/NA	Water	310.2	
LCS 480-507085/70	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507085/80	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	350.1	
MB 480-507091/51	Method Blank	Total/NA	Water	350.1	
MB 480-507091/75	Method Blank	Total/NA	Water	350.1	
LCS 480-507091/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-507091/76	Lab Control Sample	Total/NA	Water	350.1	
480-163285-1 MS	W12-1E	Total/NA	Ground Water	350.1	
480-163285-1 DU	W12-1E	Total/NA	Ground Water	350.1	

Analysis Batch: 507196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162730-1	1134B	Total/NA	Ground Water	9038	
480-162730-2	W11-3E	Total/NA	Ground Water	9038	
MB 480-507196/100	Method Blank	Total/NA	Water	9038	
MB 480-507196/40	Method Blank	Total/NA	Water	9038	
LCS 480-507196/101	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507196/41	Lab Control Sample	Total/NA	Water	9038	
480-162730-1 MS	1134B	Total/NA	Ground Water	9038	
480-162730-1 MSD	1134B	Total/NA	Ground Water	9038	
480-162730-2 MS	W11-3E	Total/NA	Ground Water	9038	
480-162730-2 MSD	W11-3E	Total/NA	Ground Water	9038	

Analysis Batch: 507371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	SM 2540D	
MB 480-507371/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-507371/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 507487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	SM 5310C	
MB 480-507487/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-507487/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 507529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	310.2	
480-162893-2	104D	Total/NA	Ground Water	310.2	
480-162893-3	617A	Total/NA	Ground Water	310.2	
480-162893-4	617C	Total/NA	Ground Water	310.2	
480-162893-5	W9-1E	Total/NA	Ground Water	310.2	
480-162893-6	W9-2E	Total/NA	Ground Water	310.2	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	310.2	

General Chemistry (Continued)

Analysis Batch: 507529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-507529/136	Method Blank	Total/NA	Water	310.2	
MB 480-507529/159	Method Blank	Total/NA	Water	310.2	
LCS 480-507529/134	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507529/157	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	9038	
480-162893-2	104D	Total/NA	Ground Water	9038	
480-162893-3	617A	Total/NA	Ground Water	9038	
480-162893-4	617C	Total/NA	Ground Water	9038	
480-162893-5	W9-1E	Total/NA	Ground Water	9038	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	9038	
MB 480-507530/145	Method Blank	Total/NA	Water	9038	
MB 480-507530/179	Method Blank	Total/NA	Water	9038	
LCS 480-507530/180	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 507531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	9251	
480-162893-2	104D	Total/NA	Ground Water	9251	
480-162893-3	617A	Total/NA	Ground Water	9251	
480-162893-4	617C	Total/NA	Ground Water	9251	
480-162893-5	W9-1E	Total/NA	Ground Water	9251	
480-162893-6	W9-2E	Total/NA	Ground Water	9251	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	9251	
MB 480-507531/149	Method Blank	Total/NA	Water	9251	
MB 480-507531/163	Method Blank	Total/NA	Water	9251	
LCS 480-507531/148	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507531/162	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 507641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	SM 2540C	
MB 480-507641/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-507641/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 507740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-6	310D	Total/NA	Ground Water	310.2	
480-162953-3	TRANS	Total/NA	Ground Water	310.2	
480-162953-4	W11-6E	Total/NA	Ground Water	310.2	
MB 480-507740/104	Method Blank	Total/NA	Water	310.2	
MB 480-507740/117	Method Blank	Total/NA	Water	310.2	
MB 480-507740/142	Method Blank	Total/NA	Water	310.2	
MB 480-507740/151	Method Blank	Total/NA	Water	310.2	
MB 480-507740/92	Method Blank	Total/NA	Water	310.2	
LCS 480-507740/105	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507740/114	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507740/143	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507740/152	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 507740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-507740/93	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-2	628A	Total/NA	Ground Water	9251	
480-162953-3	TRANS	Total/NA	Ground Water	9251	
480-162953-4	W11-6E	Total/NA	Ground Water	9251	
MB 480-507743/188	Method Blank	Total/NA	Water	9251	
MB 480-507743/199	Method Blank	Total/NA	Water	9251	
LCS 480-507743/187	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507743/198	Lab Control Sample	Total/NA	Water	9251	
480-162953-2 MS	628A	Total/NA	Ground Water	9251	
480-162953-2 MSD	628A	Total/NA	Ground Water	9251	
480-162953-3 MS	TRANS	Total/NA	Ground Water	9251	
480-162953-3 MSD	TRANS	Total/NA	Ground Water	9251	

Analysis Batch: 507744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162641-2	107BR	Total/NA	Ground Water	9038	
480-162953-1	626B	Total/NA	Ground Water	9038	
480-162953-2	628A	Total/NA	Ground Water	9038	
480-162953-4	W11-6E	Total/NA	Ground Water	9038	
MB 480-507744/161	Method Blank	Total/NA	Water	9038	
MB 480-507744/195	Method Blank	Total/NA	Water	9038	
MB 480-507744/54	Method Blank	Total/NA	Water	9038	
MB 480-507744/66	Method Blank	Total/NA	Water	9038	
LCS 480-507744/162	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507744/196	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507744/55	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507744/67	Lab Control Sample	Total/NA	Water	9038	
480-162953-2 MS	628A	Total/NA	Ground Water	9038	
480-162953-2 MSD	628A	Total/NA	Ground Water	9038	

Analysis Batch: 507954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	310.2	
480-162953-2	628A	Total/NA	Ground Water	310.2	
480-163033-1	W12-4B	Total/NA	Ground Water	310.2	
480-163033-2	W12-3E	Total/NA	Ground Water	310.2	
MB 480-507954/112	Method Blank	Total/NA	Water	310.2	
MB 480-507954/142	Method Blank	Total/NA	Water	310.2	
MB 480-507954/43	Method Blank	Total/NA	Water	310.2	
MB 480-507954/53	Method Blank	Total/NA	Water	310.2	
MB 480-507954/67	Method Blank	Total/NA	Water	310.2	
MB 480-507954/79	Method Blank	Total/NA	Water	310.2	
MB 480-507954/92	Method Blank	Total/NA	Water	310.2	
LCS 480-507954/113	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/143	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/44	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/54	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/68	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 507954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-507954/80	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/93	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	9251	
480-163033-1	W12-4B	Total/NA	Ground Water	9251	
480-163033-2	W12-3E	Total/NA	Ground Water	9251	
MB 480-507957/180	Method Blank	Total/NA	Water	9251	
MB 480-507957/211	Method Blank	Total/NA	Water	9251	
MB 480-507957/274	Method Blank	Total/NA	Water	9251	
MB 480-507957/285	Method Blank	Total/NA	Water	9251	
MB 480-507957/291	Method Blank	Total/NA	Water	9251	
LCS 480-507957/179	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/210	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/273	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/284	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/290	Lab Control Sample	Total/NA	Water	9251	
480-163033-1 MS	W12-4B	Total/NA	Ground Water	9251	
480-163033-1 MSD	W12-4B	Total/NA	Ground Water	9251	
480-163033-2 MS	W12-3E	Total/NA	Ground Water	9251	
480-163033-2 MSD	W12-3E	Total/NA	Ground Water	9251	

Analysis Batch: 507958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-6	W9-2E	Total/NA	Ground Water	9038	
480-162953-3	TRANS	Total/NA	Ground Water	9038	
480-163033-1	W12-4B	Total/NA	Ground Water	9038	
480-163033-2	W12-3E	Total/NA	Ground Water	9038	
MB 480-507958/118	Method Blank	Total/NA	Water	9038	
MB 480-507958/170	Method Blank	Total/NA	Water	9038	
MB 480-507958/215	Method Blank	Total/NA	Water	9038	
MB 480-507958/274	Method Blank	Total/NA	Water	9038	
MB 480-507958/301	Method Blank	Total/NA	Water	9038	
MB 480-507958/80	Method Blank	Total/NA	Water	9038	
LCS 480-507958/119	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/171	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/216	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/275	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/302	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/81	Lab Control Sample	Total/NA	Water	9038	
480-163033-1 MS	W12-4B	Total/NA	Ground Water	9038	
480-163033-1 MSD	W12-4B	Total/NA	Ground Water	9038	
480-163033-2 MS	W12-3E	Total/NA	Ground Water	9038	
480-163033-2 MSD	W12-3E	Total/NA	Ground Water	9038	

Analysis Batch: 508243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-3	TRANS	Total/NA	Ground Water	410.4	
MB 480-508243/4	Method Blank	Total/NA	Water	410.4	
LCS 480-508243/5	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 508243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-3 MS	TRANS	Total/NA	Ground Water	410.4	

Analysis Batch: 508355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163285-1	W12-1E	Total/NA	Ground Water	310.2	
MB 480-508355/31	Method Blank	Total/NA	Water	310.2	
MB 480-508355/45	Method Blank	Total/NA	Water	310.2	
LCS 480-508355/32	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-508355/46	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 508402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	9251	
480-162477-2	1008BR2	Total/NA	Water	9251	
480-162477-3	1008ER2	Total/NA	Water	9251	
480-162477-4	W11-2E	Total/NA	Water	9251	
480-162477-5	627A	Total/NA	Water	9251	
480-162477-6	310AW	Total/NA	Water	9251	
480-162477-7	W12-4E	Total/NA	Water	9251	
480-163285-1	W12-1E	Total/NA	Ground Water	9251	
MB 480-508402/186	Method Blank	Total/NA	Water	9251	
MB 480-508402/198	Method Blank	Total/NA	Water	9251	
MB 480-508402/21	Method Blank	Total/NA	Water	9251	
MB 480-508402/32	Method Blank	Total/NA	Water	9251	
MB 480-508402/43	Method Blank	Total/NA	Water	9251	
LCS 480-508402/185	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508402/197	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508402/20	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508402/31	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508402/42	Lab Control Sample	Total/NA	Water	9251	
480-162477-2 MS	1008BR2	Total/NA	Water	9251	
480-162477-2 MSD	1008BR2	Total/NA	Water	9251	
480-162477-7 MS	W12-4E	Total/NA	Water	9251	
480-162477-7 MSD	W12-4E	Total/NA	Water	9251	

Analysis Batch: 508403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	9038	
480-162477-2	1008BR2	Total/NA	Water	9038	
480-162477-3	1008ER2	Total/NA	Water	9038	
480-162477-4	W11-2E	Total/NA	Water	9038	
480-162477-5	627A	Total/NA	Water	9038	
480-162477-6	310AW	Total/NA	Water	9038	
480-162477-7	W12-4E	Total/NA	Water	9038	
MB 480-508403/45	Method Blank	Total/NA	Water	9038	
LCS 480-508403/46	Lab Control Sample	Total/NA	Water	9038	
480-162477-2 MS	1008BR2	Total/NA	Water	9038	
480-162477-2 MSD	1008BR2	Total/NA	Water	9038	
480-162477-7 MS	W12-4E	Total/NA	Water	9038	
480-162477-7 MSD	W12-4E	Total/NA	Water	9038	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

General Chemistry

Analysis Batch: 508623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	9251	
480-162577-2	106DR	Total/NA	Ground Water	9251	
480-162577-3	106WR	Total/NA	Ground Water	9251	
MB 480-508623/21	Method Blank	Total/NA	Water	9251	
MB 480-508623/79	Method Blank	Total/NA	Water	9251	
LCS 480-508623/20	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508623/78	Lab Control Sample	Total/NA	Water	9251	
480-162577-1 MS	106CR	Total/NA	Ground Water	9251	
480-162577-1 MSD	106CR	Total/NA	Ground Water	9251	

Analysis Batch: 508624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	9038	
480-162577-2	106DR	Total/NA	Ground Water	9038	
480-162577-3	106WR	Total/NA	Ground Water	9038	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	9038	
480-163285-1	W12-1E	Total/NA	Ground Water	9038	
MB 480-508624/47	Method Blank	Total/NA	Water	9038	
MB 480-508624/59	Method Blank	Total/NA	Water	9038	
MB 480-508624/88	Method Blank	Total/NA	Water	9038	
LCS 480-508624/48	Lab Control Sample	Total/NA	Water	9038	
LCS 480-508624/60	Lab Control Sample	Total/NA	Water	9038	
LCS 480-508624/89	Lab Control Sample	Total/NA	Water	9038	
480-162577-1 MS	106CR	Total/NA	Ground Water	9038	
480-162577-1 MSD	106CR	Total/NA	Ground Water	9038	
480-162577-4 MS	DUP-GW-01	Total/NA	Ground Water	9038	
480-162577-4 MSD	DUP-GW-01	Total/NA	Ground Water	9038	
480-163285-1 MS	W12-1E	Total/NA	Ground Water	9038	
480-163285-1 MSD	W12-1E	Total/NA	Ground Water	9038	

Analysis Batch: 509179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-4	DUP-GW-01	Total/NA	Ground Water	9251	
MB 480-509179/165	Method Blank	Total/NA	Water	9251	
MB 480-509179/65	Method Blank	Total/NA	Water	9251	
MB 480-509179/74	Method Blank	Total/NA	Water	9251	
LCS 480-509179/164	Lab Control Sample	Total/NA	Water	9251	
LCS 480-509179/64	Lab Control Sample	Total/NA	Water	9251	
LCS 480-509179/73	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 509275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	SM 1030E	
480-162327-2	620C	Total/NA	Ground Water	SM 1030E	
480-162327-3	630E	Total/NA	Ground Water	SM 1030E	
480-162327-4	629B	Total/NA	Ground Water	SM 1030E	
480-162327-5	629E	Total/NA	Ground Water	SM 1030E	
480-162327-6	630B	Total/NA	Ground Water	SM 1030E	
480-162382-1	101C	Total/NA	Ground Water	SM 1030E	
480-162382-2	W11-4E	Total/NA	Ground Water	SM 1030E	
480-162382-3	W11-5B	Total/NA	Ground Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 509275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-4	W11-5E	Total/NA	Ground Water	SM 1030E	
480-162577-1	106CR	Total/NA	Ground Water	SM 1030E	
480-162577-2	106DR	Total/NA	Ground Water	SM 1030E	
480-162577-3	106WR	Total/NA	Ground Water	SM 1030E	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	SM 1030E	
480-162641-1	107CR	Total/NA	Ground Water	SM 1030E	
480-162641-2	107BR	Total/NA	Ground Water	SM 1030E	
480-162641-3	W12-1B	Total/NA	Ground Water	SM 1030E	
480-162641-4	DUP-GW-02	Total/NA	Ground Water	SM 1030E	
480-162641-5	310C	Total/NA	Ground Water	SM 1030E	
480-162641-6	310D	Total/NA	Ground Water	SM 1030E	
480-162730-1	1134B	Total/NA	Ground Water	SM 1030E	
480-162730-2	W11-3E	Total/NA	Ground Water	SM 1030E	
480-162893-1	104C	Total/NA	Ground Water	SM 1030E	
480-162893-2	104D	Total/NA	Ground Water	SM 1030E	
480-162893-3	617A	Total/NA	Ground Water	SM 1030E	
480-162893-4	617C	Total/NA	Ground Water	SM 1030E	
480-162893-5	W9-1E	Total/NA	Ground Water	SM 1030E	
480-162893-6	W9-2E	Total/NA	Ground Water	SM 1030E	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	SM 1030E	
480-162953-1	626B	Total/NA	Ground Water	SM 1030E	
480-162953-2	628A	Total/NA	Ground Water	SM 1030E	
480-162953-3	TRANS	Total/NA	Ground Water	SM 1030E	
480-162953-4	W11-6E	Total/NA	Ground Water	SM 1030E	
480-163033-1	W12-4B	Total/NA	Ground Water	SM 1030E	
480-163033-2	W12-3E	Total/NA	Ground Water	SM 1030E	
480-163285-1	W12-1E	Total/NA	Ground Water	SM 1030E	

Analysis Batch: 509433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	353.2	
480-163965-2	1041B	Total/NA	Ground Water	353.2	
480-163965-3	618AR	Total/NA	Ground Water	353.2	
480-163965-4	618CR	Total/NA	Ground Water	353.2	
480-163965-5	624B	Total/NA	Ground Water	353.2	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	353.2	
480-163965-7	W11-1B	Total/NA	Ground Water	353.2	
480-163965-8	W12-5E	Total/NA	Ground Water	353.2	

Analysis Batch: 509620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	350.1	
480-163965-2	1041B	Total/NA	Ground Water	350.1	
480-163965-3	618AR	Total/NA	Ground Water	350.1	
480-163965-4	618CR	Total/NA	Ground Water	350.1	
480-163965-5	624B	Total/NA	Ground Water	350.1	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	350.1	
480-163965-7	W11-1B	Total/NA	Ground Water	350.1	
480-163965-8	W12-5E	Total/NA	Ground Water	350.1	
MB 480-509620/3	Method Blank	Total/NA	Water	350.1	
MB 480-509620/51	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 509620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-509620/75	Method Blank	Total/NA	Water	350.1	
MB 480-509620/99	Method Blank	Total/NA	Water	350.1	
LCS 480-509620/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-509620/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-509620/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-509620/76	Lab Control Sample	Total/NA	Water	350.1	
480-163965-6 MS	DUP-GW-04	Total/NA	Ground Water	350.1	
480-163965-6 DU	DUP-GW-04	Total/NA	Ground Water	350.1	

Analysis Batch: 509802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	SM 2540C	
480-163965-7	W11-1B	Total/NA	Ground Water	SM 2540C	
480-163965-8	W12-5E	Total/NA	Ground Water	SM 2540C	
MB 480-509802/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-509802/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 509834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	SM 5310C	
480-163965-2	1041B	Total/NA	Ground Water	SM 5310C	
480-163965-3	618AR	Total/NA	Ground Water	SM 5310C	
480-163965-4	618CR	Total/NA	Ground Water	SM 5310C	
480-163965-5	624B	Total/NA	Ground Water	SM 5310C	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	SM 5310C	
480-163965-7	W11-1B	Total/NA	Ground Water	SM 5310C	
480-163965-8	W12-5E	Total/NA	Ground Water	SM 5310C	
MB 480-509834/55	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-509834/56	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 480-509834/78	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 509924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-2	1041B	Total/NA	Ground Water	SM 2540C	
480-163965-3	618AR	Total/NA	Ground Water	SM 2540C	
480-163965-4	618CR	Total/NA	Ground Water	SM 2540C	
480-163965-5	624B	Total/NA	Ground Water	SM 2540C	
MB 480-509924/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-509924/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-163965-5 DU	624B	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 510103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-6	DUP-GW-04	Total/NA	Ground Water	SM 2540C	
MB 480-510103/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-510103/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-163965-6 DU	DUP-GW-04	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 510161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 510161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-2	1041B	Total/NA	Ground Water	SM 2540D	
MB 480-510161/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-510161/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 510379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-3	618AR	Total/NA	Ground Water	SM 2540D	
480-163965-4	618CR	Total/NA	Ground Water	SM 2540D	
480-163965-5	624B	Total/NA	Ground Water	SM 2540D	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	SM 2540D	
480-163965-7	W11-1B	Total/NA	Ground Water	SM 2540D	
480-163965-8	W12-5E	Total/NA	Ground Water	SM 2540D	
MB 480-510379/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-510379/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 510700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	310.2	
480-163965-2	1041B	Total/NA	Ground Water	310.2	
480-163965-3	618AR	Total/NA	Ground Water	310.2	
480-163965-4	618CR	Total/NA	Ground Water	310.2	
480-163965-5	624B	Total/NA	Ground Water	310.2	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	310.2	
480-163965-7	W11-1B	Total/NA	Ground Water	310.2	
480-163965-8	W12-5E	Total/NA	Ground Water	310.2	
MB 480-510700/104	Method Blank	Total/NA	Water	310.2	
MB 480-510700/116	Method Blank	Total/NA	Water	310.2	
MB 480-510700/28	Method Blank	Total/NA	Water	310.2	
MB 480-510700/40	Method Blank	Total/NA	Water	310.2	
MB 480-510700/64	Method Blank	Total/NA	Water	310.2	
MB 480-510700/8	Method Blank	Total/NA	Water	310.2	
LCS 480-510700/105	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-510700/117	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-510700/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-510700/41	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-510700/65	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-510700/9	Lab Control Sample	Total/NA	Water	310.2	
480-163965-1 MS	1040B	Total/NA	Ground Water	310.2	

Analysis Batch: 510703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	9251	
480-163965-2	1041B	Total/NA	Ground Water	9251	
480-163965-3	618AR	Total/NA	Ground Water	9251	
480-163965-5	624B	Total/NA	Ground Water	9251	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	9251	
480-163965-7	W11-1B	Total/NA	Ground Water	9251	
480-163965-8	W12-5E	Total/NA	Ground Water	9251	
MB 480-510703/66	Method Blank	Total/NA	Water	9251	
MB 480-510703/73	Method Blank	Total/NA	Water	9251	
MB 480-510703/86	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 510703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-510703/65	Lab Control Sample	Total/NA	Water	9251	
LCS 480-510703/72	Lab Control Sample	Total/NA	Water	9251	
LCS 480-510703/85	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 510704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	9038	
480-163965-2	1041B	Total/NA	Ground Water	9038	
480-163965-3	618AR	Total/NA	Ground Water	9038	
480-163965-4	618CR	Total/NA	Ground Water	9038	
480-163965-5	624B	Total/NA	Ground Water	9038	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	9038	
480-163965-7	W11-1B	Total/NA	Ground Water	9038	
480-163965-8	W12-5E	Total/NA	Ground Water	9038	
MB 480-510704/103	Method Blank	Total/NA	Water	9038	
MB 480-510704/13	Method Blank	Total/NA	Water	9038	
MB 480-510704/19	Method Blank	Total/NA	Water	9038	
MB 480-510704/53	Method Blank	Total/NA	Water	9038	
LCS 480-510704/104	Lab Control Sample	Total/NA	Water	9038	
LCS 480-510704/14	Lab Control Sample	Total/NA	Water	9038	
LCS 480-510704/20	Lab Control Sample	Total/NA	Water	9038	
LCS 480-510704/54	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 510899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-2	1041B	Total/NA	Ground Water	410.4	
480-163965-3	618AR	Total/NA	Ground Water	410.4	
480-163965-5	624B	Total/NA	Ground Water	410.4	
480-163965-8	W12-5E	Total/NA	Ground Water	410.4	
MB 480-510899/28	Method Blank	Total/NA	Water	410.4	
MB 480-510899/4	Method Blank	Total/NA	Water	410.4	
LCS 480-510899/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-510899/5	Lab Control Sample	Total/NA	Water	410.4	
480-163965-2 MS	1041B	Total/NA	Ground Water	410.4	
480-163965-2 MSD	1041B	Total/NA	Ground Water	410.4	
480-163965-3 MS	618AR	Total/NA	Ground Water	410.4	
480-163965-5 MS	624B	Total/NA	Ground Water	410.4	
480-163965-5 MSD	624B	Total/NA	Ground Water	410.4	
480-163965-8 MS	W12-5E	Total/NA	Ground Water	410.4	

Analysis Batch: 511169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	353.2	

Analysis Batch: 511207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-4	618CR	Total/NA	Ground Water	9251	
MB 480-511207/17	Method Blank	Total/NA	Water	9251	
MB 480-511207/29	Method Blank	Total/NA	Water	9251	
LCS 480-511207/16	Lab Control Sample	Total/NA	Water	9251	
LCS 480-511207/28	Lab Control Sample	Total/NA	Water	9251	

General Chemistry

Analysis Batch: 511264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	SM 2540C	
MB 480-511264/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-511264/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 511438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	SM 2540D	
MB 480-511438/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-511438/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 511524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	310.2	
MB 480-511524/20	Method Blank	Total/NA	Water	310.2	
MB 480-511524/28	Method Blank	Total/NA	Water	310.2	
MB 480-511524/44	Method Blank	Total/NA	Water	310.2	
LCS 480-511524/21	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-511524/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-511524/41	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 511540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	9251	
MB 480-511540/54	Method Blank	Total/NA	Water	9251	
MB 480-511540/66	Method Blank	Total/NA	Water	9251	
LCS 480-511540/53	Lab Control Sample	Total/NA	Water	9251	
LCS 480-511540/65	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 511541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	9038	
MB 480-511541/43	Method Blank	Total/NA	Water	9038	
MB 480-511541/71	Method Blank	Total/NA	Water	9038	
LCS 480-511541/44	Lab Control Sample	Total/NA	Water	9038	
LCS 480-511541/72	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 511631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	SM 2540C	
MB 480-511631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-511631/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-164496-2 DU	W12-2E	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 511665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-511665/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-511665/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 512498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-164496-2	W12-2E	Total/NA	Ground Water	350.1	

General Chemistry (Continued)

Analysis Batch: 512498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-512498/3	Method Blank	Total/NA	Water	350.1	
LCS 480-512498/4	Lab Control Sample	Total/NA	Water	350.1	
480-164496-2 MS	W12-2E	Total/NA	Ground Water	350.1	

Analysis Batch: 513517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	SM 1030E	
480-163965-2	1041B	Total/NA	Ground Water	SM 1030E	
480-163965-3	618AR	Total/NA	Ground Water	SM 1030E	
480-163965-4	618CR	Total/NA	Ground Water	SM 1030E	
480-163965-5	624B	Total/NA	Ground Water	SM 1030E	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	SM 1030E	
480-163965-7	W11-1B	Total/NA	Ground Water	SM 1030E	
480-163965-8	W12-5E	Total/NA	Ground Water	SM 1030E	
480-164496-2	W12-2E	Total/NA	Ground Water	SM 1030E	

Biology

Analysis Batch: 508299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-3	TRANS	Total/NA	Ground Water	SM 9223B	

Field Service / Mobile Lab

Analysis Batch: 509010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162382-1	101C	Total/NA	Ground Water	Field Sampling	
480-162382-2	W11-4E	Total/NA	Ground Water	Field Sampling	
480-162382-3	W11-5B	Total/NA	Ground Water	Field Sampling	
480-162382-4	W11-5E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 509015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162477-1	W-11-1ER	Total/NA	Water	Field Sampling	
480-162477-2	1008BR2	Total/NA	Water	Field Sampling	
480-162477-3	1008ER2	Total/NA	Water	Field Sampling	
480-162477-4	W11-2E	Total/NA	Water	Field Sampling	
480-162477-5	627A	Total/NA	Water	Field Sampling	
480-162477-6	310AW	Total/NA	Water	Field Sampling	
480-162477-7	W12-4E	Total/NA	Water	Field Sampling	

Analysis Batch: 509023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162577-1	106CR	Total/NA	Ground Water	Field Sampling	
480-162577-2	106DR	Total/NA	Ground Water	Field Sampling	
480-162577-3	106WR	Total/NA	Ground Water	Field Sampling	
480-162577-4	DUP-GW-01	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 509058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-1	626B	Total/NA	Ground Water	Field Sampling	
480-162953-2	628A	Total/NA	Ground Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 509058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162953-3	TRANS	Total/NA	Ground Water	Field Sampling	
480-162953-4	W11-6E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 509792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162327-1	620A	Total/NA	Ground Water	Field Sampling	
480-162327-2	620C	Total/NA	Ground Water	Field Sampling	
480-162327-3	630E	Total/NA	Ground Water	Field Sampling	
480-162327-4	629B	Total/NA	Ground Water	Field Sampling	
480-162327-5	629E	Total/NA	Ground Water	Field Sampling	
480-162327-6	630B	Total/NA	Ground Water	Field Sampling	
480-162641-1	107CR	Total/NA	Ground Water	Field Sampling	
480-162641-2	107BR	Total/NA	Ground Water	Field Sampling	
480-162641-3	W12-1B	Total/NA	Ground Water	Field Sampling	
480-162641-5	310C	Total/NA	Ground Water	Field Sampling	
480-162641-6	310D	Total/NA	Ground Water	Field Sampling	
480-162730-1	1134B	Total/NA	Ground Water	Field Sampling	
480-162730-2	W11-3E	Total/NA	Ground Water	Field Sampling	
480-163033-1	W12-4B	Total/NA	Ground Water	Field Sampling	
480-163033-2	W12-3E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 511133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162893-1	104C	Total/NA	Ground Water	Field Sampling	
480-162893-2	104D	Total/NA	Ground Water	Field Sampling	
480-162893-3	617A	Total/NA	Ground Water	Field Sampling	
480-162893-4	617C	Total/NA	Ground Water	Field Sampling	
480-162893-5	W9-1E	Total/NA	Ground Water	Field Sampling	
480-162893-6	W9-2E	Total/NA	Ground Water	Field Sampling	
480-162893-7	DUP-GW-03	Total/NA	Ground Water	Field Sampling	
480-163285-1	W12-1E	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 513369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163965-1	1040B	Total/NA	Ground Water	Field Sampling	
480-163965-2	1041B	Total/NA	Ground Water	Field Sampling	
480-163965-3	618AR	Total/NA	Ground Water	Field Sampling	
480-163965-4	618CR	Total/NA	Ground Water	Field Sampling	
480-163965-5	624B	Total/NA	Ground Water	Field Sampling	
480-163965-6	DUP-GW-04	Total/NA	Ground Water	Field Sampling	
480-163965-7	W11-1B	Total/NA	Ground Water	Field Sampling	
480-163965-8	W12-5E	Total/NA	Ground Water	Field Sampling	
480-164496-2	W12-2E	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 620A
Lab Sample ID: 480-162327-1
Date Collected: 11/07/19 13:29
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 00:44	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 00:49	BJB	TAL SAV
Total/NA	Analysis	310.2		1	506077	11/21/19 16:06	SRW	TAL BUF
Total/NA	Analysis	350.1		1	504675	11/15/19 08:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 20:52	BEF	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 09:40	SRW	TAL BUF
Total/NA	Analysis	9251		1	506076	11/21/19 15:56	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 00:43	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 13:29	FLD	TAL BUF

Client Sample ID: 620C
Lab Sample ID: 480-162327-2
Date Collected: 11/07/19 14:20
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 00:48	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 00:44	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 17:12	KEB	TAL BUF
Total/NA	Analysis	350.1		1	504675	11/15/19 08:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 18:40	BEF	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 19:44	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:06	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 04:20	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 14:20	FLD	TAL BUF

Client Sample ID: 630E
Lab Sample ID: 480-162327-3
Date Collected: 11/07/19 11:41
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 00:52	LMH	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 630E
Lab Sample ID: 480-162327-3
Date Collected: 11/07/19 11:41
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 00:58	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 17:12	KEB	TAL BUF
Total/NA	Analysis	350.1		1	504675	11/15/19 08:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 20:53	BEF	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 18:54	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:06	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 04:37	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 11:41	FLD	TAL BUF

Client Sample ID: 629B
Lab Sample ID: 480-162327-4
Date Collected: 11/07/19 11:05
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 00:55	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 00:29	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 20:00	KEB	TAL BUF
Total/NA	Analysis	350.1		1	504675	11/15/19 08:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 18:45	BEF	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 18:54	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:06	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 04:53	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 11:05	FLD	TAL BUF

Client Sample ID: 629E
Lab Sample ID: 480-162327-5
Date Collected: 11/07/19 10:20
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 01:10	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 00:47	BJB	TAL SAV
Total/NA	Analysis	310.2		2	505921	11/20/19 19:30	KEB	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 629E
Lab Sample ID: 480-162327-5
Date Collected: 11/07/19 10:20
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	504675	11/15/19 08:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 20:54	BEF	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 19:44	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:06	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 05:09	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 10:20	FLD	TAL BUF

Client Sample ID: 630B
Lab Sample ID: 480-162327-6
Date Collected: 11/07/19 12:35
Matrix: Ground Water
Date Received: 11/08/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503472	11/11/19 10:20	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504375	11/14/19 01:14	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 01:01	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 17:07	KEB	TAL BUF
Total/NA	Analysis	350.1		1	504675	11/15/19 08:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503343	11/08/19 18:48	BEF	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 18:55	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:06	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504310	11/13/19 16:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 06:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/07/19 12:35	FLD	TAL BUF

Client Sample ID: 101C
Lab Sample ID: 480-162382-1
Date Collected: 11/08/19 13:44
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503784	11/12/19 09:32	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505547	11/19/19 20:36	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 01:04	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 17:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505225	11/18/19 15:56	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503495	11/09/19 15:31	RLM	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 101C
Lab Sample ID: 480-162382-1
Date Collected: 11/08/19 13:44
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	506078	11/21/19 19:35	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 20:08	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504512	11/14/19 13:55	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 10:26	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509010	11/08/19 13:44	FLD	TAL BUF

Client Sample ID: W11-4E
Lab Sample ID: 480-162382-2
Date Collected: 11/08/19 10:31
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503784	11/12/19 09:32	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505547	11/19/19 20:39	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 01:07	BJB	TAL SAV
Total/NA	Analysis	310.2		3	505921	11/20/19 17:40	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505225	11/18/19 15:56	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503495	11/09/19 15:32	RLM	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 19:38	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 20:08	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504512	11/14/19 13:55	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504552	11/14/19 15:39	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 10:42	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509010	11/08/19 10:31	FLD	TAL BUF

Client Sample ID: W11-5B
Lab Sample ID: 480-162382-3
Date Collected: 11/08/19 12:03
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503784	11/12/19 09:32	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505547	11/19/19 20:43	LMH	TAL BUF
Total/NA	Prep	3005A			506297	11/23/19 07:00	JLC	TAL BUF
Total/NA	Analysis	6010C		1	506556	11/23/19 13:36	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 01:10	BJB	TAL SAV
Total/NA	Analysis	310.2		1	505921	11/20/19 17:28	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505225	11/18/19 15:57	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503495	11/09/19 16:09	RLM	TAL BUF
Total/NA	Analysis	9038		1	506078	11/21/19 19:38	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W11-5B
Lab Sample ID: 480-162382-3
Date Collected: 11/08/19 12:03
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	505922	11/20/19 20:08	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504512	11/14/19 13:55	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504795	11/15/19 15:13	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 10:59	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509010	11/08/19 12:03	FLD	TAL BUF

Client Sample ID: W11-5E
Lab Sample ID: 480-162382-4
Date Collected: 11/08/19 11:16
Matrix: Ground Water
Date Received: 11/09/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			503784	11/12/19 09:32	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505547	11/19/19 20:58	LMH	TAL BUF
Total/NA	Prep	3010A			595989	11/13/19 12:02	PG	TAL SAV
Total/NA	Analysis	6020A		1	596510	11/16/19 01:12	BJB	TAL SAV
Total/NA	Analysis	310.2		2	505921	11/20/19 17:32	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505225	11/18/19 15:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	503495	11/09/19 16:10	RLM	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 09:46	SRW	TAL BUF
Total/NA	Analysis	9251		1	505922	11/20/19 19:14	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	504514	11/14/19 13:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	504795	11/15/19 15:13	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504833	11/15/19 11:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509010	11/08/19 11:16	FLD	TAL BUF

Client Sample ID: W-11-1ER
Lab Sample ID: 480-162477-1
Date Collected: 11/11/19 13:28
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:00	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:04	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:17	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506716	11/26/19 00:20	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:37	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:20	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:18	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W-11-1ER
Lab Sample ID: 480-162477-1
Date Collected: 11/11/19 13:28
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 02:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 13:28	FLD	TAL BUF

Client Sample ID: 1008BR2
Lab Sample ID: 480-162477-2
Date Collected: 11/11/19 12:06
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:04	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:08	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:06	BJB	TAL SAV
Total/NA	Analysis	310.2		1	506716	11/25/19 23:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:38	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:10	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:14	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 03:06	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 12:06	FLD	TAL BUF

Client Sample ID: 1008ER2
Lab Sample ID: 480-162477-3
Date Collected: 11/11/19 11:16
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:08	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:23	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:20	BJB	TAL SAV
Total/NA	Analysis	310.2		4	506716	11/25/19 23:52	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:39	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:20	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:19	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 1008ER2
Lab Sample ID: 480-162477-3
Date Collected: 11/11/19 11:16
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 03:22	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 11:16	FLD	TAL BUF

Client Sample ID: W11-2E
Lab Sample ID: 480-162477-4
Date Collected: 11/11/19 14:00
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:12	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:26	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:14	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506716	11/26/19 00:20	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:46	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:21	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:25	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 03:37	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 14:00	FLD	TAL BUF

Client Sample ID: 627A
Lab Sample ID: 480-162477-5
Date Collected: 11/11/19 12:51
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:15	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:30	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:09	BJB	TAL SAV
Total/NA	Analysis	310.2		1	506716	11/25/19 23:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:50	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:22	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:25	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 627A
Lab Sample ID: 480-162477-5
Date Collected: 11/11/19 12:51
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 04:23	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 12:51	FLD	TAL BUF

Client Sample ID: 310AW
Lab Sample ID: 480-162477-6
Date Collected: 11/11/19 10:41
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:19	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:34	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:11	BJB	TAL SAV
Total/NA	Analysis	310.2		1	506716	11/25/19 23:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:51	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:23	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:26	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 04:38	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 10:41	FLD	TAL BUF

Client Sample ID: W12-4E
Lab Sample ID: 480-162477-7
Date Collected: 11/11/19 11:26
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504043	11/13/19 09:24	ADM	TAL BUF
Total/NA	Analysis	6010C		1	505034	11/16/19 19:23	LMH	TAL BUF
Total/NA	Prep	3005A			504222	11/14/19 09:43	NSW	TAL BUF
Total/NA	Analysis	6010C		1	504652	11/15/19 00:38	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 23:03	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506716	11/25/19 23:07	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505139	11/18/19 10:49	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504044	11/12/19 15:52	BEF	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 11:23	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 11:26	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	504745	11/15/19 12:16	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505243	11/18/19 19:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	504958	11/16/19 04:54	CLA	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-4E
Lab Sample ID: 480-162477-7
Date Collected: 11/11/19 11:26
Matrix: Water
Date Received: 11/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	509015	11/11/19 11:26	FLD	TAL BUF

Client Sample ID: 106CR
Lab Sample ID: 480-162577-1
Date Collected: 11/12/19 16:36
Matrix: Ground Water
Date Received: 11/13/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504493	11/15/19 08:53	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504895	11/15/19 18:49	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 22:48	BJB	TAL SAV
Total/NA	Analysis	310.2		3	506716	11/26/19 03:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 10:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504336	11/13/19 18:31	BEF	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 19:08	SRW	TAL BUF
Total/NA	Analysis	9251		1	508623	12/06/19 19:11	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505155	11/18/19 12:38	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505245	11/18/19 19:43	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 09:32	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509023	11/12/19 16:36	FLD	TAL BUF

Client Sample ID: 106DR
Lab Sample ID: 480-162577-2
Date Collected: 11/12/19 15:14
Matrix: Ground Water
Date Received: 11/13/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504493	11/15/19 08:53	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504895	11/15/19 18:53	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 22:51	BJB	TAL SAV
Total/NA	Analysis	310.2		4	506716	11/26/19 03:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 10:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504336	11/13/19 20:19	BEF	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 19:11	SRW	TAL BUF
Total/NA	Analysis	9251		1	508623	12/06/19 19:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505155	11/18/19 12:38	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505245	11/18/19 19:43	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 09:48	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509023	11/12/19 15:14	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 106WR
Lab Sample ID: 480-162577-3
Date Collected: 11/12/19 13:54
Matrix: Ground Water
Date Received: 11/13/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504493	11/15/19 08:53	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504895	11/15/19 19:11	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 22:34	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506716	11/26/19 03:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 10:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504336	11/13/19 20:20	BEF	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 19:13	SRW	TAL BUF
Total/NA	Analysis	9251		1	508623	12/06/19 20:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505155	11/18/19 12:38	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505440	11/19/19 13:49	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 11:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509023	11/12/19 13:54	FLD	TAL BUF

Client Sample ID: DUP-GW-01
Lab Sample ID: 480-162577-4
Date Collected: 11/12/19 13:54
Matrix: Ground Water
Date Received: 11/13/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504493	11/15/19 08:53	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504895	11/15/19 19:15	AMH	TAL BUF
Total/NA	Prep	3010A			596997	11/19/19 20:24	PG	TAL SAV
Total/NA	Analysis	6020A		1	597249	11/20/19 22:54	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506716	11/26/19 03:24	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 10:29	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504336	11/13/19 20:24	BEF	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 19:14	SRW	TAL BUF
Total/NA	Analysis	9251		1	509179	12/10/19 17:37	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505155	11/18/19 12:38	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505440	11/19/19 13:49	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 12:01	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509023	11/12/19 13:54	FLD	TAL BUF

Client Sample ID: 107CR
Lab Sample ID: 480-162641-1
Date Collected: 11/13/19 11:15
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:01	AMH	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 107CR
Lab Sample ID: 480-162641-1
Date Collected: 11/13/19 11:15
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:29	BJB	TAL SAV
Total/NA	Analysis	310.2		3	506911	11/26/19 14:02	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 11:01	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 15:10	CLT	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 10:30	SRW	TAL BUF
Total/NA	Analysis	9251		1	506910	11/26/19 13:53	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 21:09	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/13/19 11:15	FLD	TAL BUF

Client Sample ID: 107BR
Lab Sample ID: 480-162641-2
Date Collected: 11/13/19 12:02
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:05	AMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:43	BJB	TAL SAV
Total/NA	Analysis	310.2		4	506911	11/26/19 14:35	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 11:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 15:12	CLT	TAL BUF
Total/NA	Analysis	9038		1	507744	12/03/19 00:33	KEB	TAL BUF
Total/NA	Analysis	9251		1	506910	11/26/19 14:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505249	11/17/19 19:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/13/19 12:02	FLD	TAL BUF

Client Sample ID: W12-1B
Lab Sample ID: 480-162641-3
Date Collected: 11/13/19 13:32
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:09	AMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:45	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506911	11/26/19 14:35	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-1B
Lab Sample ID: 480-162641-3
Date Collected: 11/13/19 13:32
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	505408	11/19/19 11:06	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 15:13	CLT	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 10:30	SRW	TAL BUF
Total/NA	Analysis	9251		1	506910	11/26/19 14:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/18/19 22:28	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/13/19 13:32	FLD	TAL BUF

Client Sample ID: DUP-GW-02
Lab Sample ID: 480-162641-4
Date Collected: 11/13/19 13:32
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:13	AMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:48	BJB	TAL SAV
Total/NA	Analysis	310.2		2	506911	11/26/19 14:42	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 11:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 15:16	CLT	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 11:31	SRW	TAL BUF
Total/NA	Analysis	9251		1	506910	11/26/19 14:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/18/19 22:57	CLA	TAL BUF

Client Sample ID: 310C
Lab Sample ID: 480-162641-5
Date Collected: 11/13/19 15:32
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:16	AMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:32	BJB	TAL SAV
Total/NA	Analysis	310.2		1	506911	11/26/19 14:15	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 11:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 16:29	CLT	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 11:31	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 310C
Lab Sample ID: 480-162641-5
Date Collected: 11/13/19 15:32
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	506910	11/26/19 14:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/18/19 23:43	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/13/19 15:32	FLD	TAL BUF

Client Sample ID: 310D
Lab Sample ID: 480-162641-6
Date Collected: 11/13/19 15:09
Matrix: Ground Water
Date Received: 11/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			504560	11/15/19 08:49	JLC	TAL BUF
Total/NA	Analysis	6010C		1	504894	11/15/19 18:20	AMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:40	BJB	TAL SAV
Total/NA	Analysis	310.2		1	507740	12/02/19 22:15	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505408	11/19/19 11:09	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504567	11/14/19 16:30	CLT	TAL BUF
Total/NA	Analysis	9038		1	506851	11/26/19 10:33	SRW	TAL BUF
Total/NA	Analysis	9251		1	506910	11/26/19 14:13	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505410	11/19/19 11:58	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	505771	11/20/19 15:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/18/19 23:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/13/19 15:09	FLD	TAL BUF

Client Sample ID: 1134B
Lab Sample ID: 480-162730-1
Date Collected: 11/14/19 13:13
Matrix: Ground Water
Date Received: 11/15/19 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505016	11/18/19 09:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	505336	11/18/19 18:20	AMH	TAL BUF
Total/NA	Prep	3010A			596746	11/18/19 15:04	AJR	TAL SAV
Total/NA	Analysis	6020A		1	597053	11/19/19 17:46	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507085	11/26/19 18:16	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505633	11/20/19 10:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504848	11/15/19 18:38	BEF	TAL BUF
Total/NA	Analysis	9038		1	507196	11/27/19 14:07	KEB	TAL BUF
Total/NA	Analysis	9251		1	507084	11/26/19 17:18	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 1134B
Lab Sample ID: 480-162730-1
Date Collected: 11/14/19 13:13
Matrix: Ground Water
Date Received: 11/15/19 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	505710	11/20/19 14:18	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506017	11/21/19 15:02	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/19/19 13:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/14/19 13:13	FLD	TAL BUF

Client Sample ID: W11-3E
Lab Sample ID: 480-162730-2
Date Collected: 11/14/19 14:05
Matrix: Ground Water
Date Received: 11/15/19 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505016	11/18/19 09:38	EMB	TAL BUF
Total/NA	Analysis	6010C		1	505336	11/18/19 18:23	AMH	TAL BUF
Total/NA	Prep	3010A			596746	11/18/19 15:04	AJR	TAL SAV
Total/NA	Analysis	6020A		1	597053	11/19/19 17:55	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507085	11/26/19 18:16	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505633	11/20/19 08:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	504848	11/15/19 21:51	BEF	TAL BUF
Total/NA	Analysis	9038		1	507196	11/27/19 11:20	KEB	TAL BUF
Total/NA	Analysis	9251		1	507084	11/26/19 17:18	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	505710	11/20/19 14:18	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506017	11/21/19 15:02	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505746	11/19/19 14:05	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/14/19 14:05	FLD	TAL BUF

Client Sample ID: 104C
Lab Sample ID: 480-162893-1
Date Collected: 11/18/19 11:06
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:01	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:14	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	11/30/19 03:42	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:45	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:37	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:42	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF

Client Sample ID: 104C

Date Collected: 11/18/19 11:06
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 02:16	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 11:06	FLD	TAL BUF

Client Sample ID: 104D

Date Collected: 11/18/19 11:15
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:19	LMH	TAL BUF
Total/NA	Prep	3005A			508465	12/06/19 10:16	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508993	12/09/19 13:04	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:24	BJB	TAL SAV
Total/NA	Analysis	310.2		1	507529	11/30/19 03:43	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:29	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:47	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:39	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:42	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506236	11/22/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 02:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 11:15	FLD	TAL BUF

Client Sample ID: 617A

Date Collected: 11/18/19 12:16
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162893-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:23	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:27	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	11/30/19 03:44	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:29	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:48	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:39	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:43	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506236	11/22/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 02:47	CLA	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 617A
Lab Sample ID: 480-162893-3
Date Collected: 11/18/19 12:16
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 12:16	FLD	TAL BUF

Client Sample ID: 617C
Lab Sample ID: 480-162893-4
Date Collected: 11/18/19 12:59
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:27	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:16	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	11/30/19 03:45	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:49	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	12/01/19 08:43	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:43	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506236	11/22/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 03:02	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 12:59	FLD	TAL BUF

Client Sample ID: W9-1E
Lab Sample ID: 480-162893-5
Date Collected: 11/18/19 13:51
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:41	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:22	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	11/30/19 03:47	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 21:36	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	12/01/19 08:43	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:46	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506236	11/22/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 03:17	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 13:51	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W9-2E
Lab Sample ID: 480-162893-6
Date Collected: 11/18/19 13:32
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:45	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:11	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	11/30/19 03:49	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:32	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:52	BEF	TAL BUF
Total/NA	Analysis	9038		1	507958	12/03/19 15:32	SRW	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:46	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506236	11/22/19 13:27	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 03:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 13:32	FLD	TAL BUF

Client Sample ID: DUP-GW-03
Lab Sample ID: 480-162893-7
Date Collected: 11/18/19 12:59
Matrix: Ground Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505715	11/21/19 10:18	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507580	11/30/19 17:49	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:19	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507529	12/01/19 09:27	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:33	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:53	BEF	TAL BUF
Total/NA	Analysis	9038		1	507530	12/01/19 09:16	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:48	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/31/19 10:21	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506631	11/25/19 13:38	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/21/19 21:46	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/18/19 12:59	FLD	TAL BUF

Client Sample ID: 626B
Lab Sample ID: 480-162953-1
Date Collected: 11/19/19 14:09
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505722	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507461	11/29/19 23:34	LMH	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 626B
Lab Sample ID: 480-162953-1
Date Collected: 11/19/19 14:09
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 20:58	BJB	TAL SAV
Total/NA	Analysis	310.2		1	507954	12/03/19 20:22	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505988	11/21/19 11:01	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505785	11/20/19 13:51	RLM	TAL BUF
Total/NA	Analysis	9038		1	507744	12/03/19 01:52	KEB	TAL BUF
Total/NA	Analysis	9251		1	507957	12/03/19 21:44	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506626	11/25/19 13:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/22/19 06:42	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509058	11/19/19 14:09	FLD	TAL BUF

Client Sample ID: 628A
Lab Sample ID: 480-162953-2
Date Collected: 11/19/19 11:44
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505722	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507461	11/29/19 23:57	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:00	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507954	12/03/19 20:23	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505988	11/21/19 11:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505785	11/20/19 15:39	RLM	TAL BUF
Total/NA	Analysis	9038		1	507744	12/03/19 01:52	KEB	TAL BUF
Total/NA	Analysis	9251		1	507743	12/03/19 01:55	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506626	11/25/19 13:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/22/19 06:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509058	11/19/19 11:44	FLD	TAL BUF

Client Sample ID: TRANS
Lab Sample ID: 480-162953-3
Date Collected: 11/19/19 12:35
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505722	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507461	11/29/19 23:53	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 21:08	BJB	TAL SAV
Total/NA	Analysis	310.2		1	507740	12/02/19 22:04	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: TRANS
Lab Sample ID: 480-162953-3
Date Collected: 11/19/19 12:35
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	505988	11/21/19 11:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505770	11/20/19 15:40	RLM	TAL BUF
Total/NA	Analysis	353.2		1	505785	11/20/19 15:42	RLM	TAL BUF
Total/NA	Analysis	410.4		1	508243	12/04/19 17:37	CSS	TAL BUF
Total/NA	Analysis	9038		1	507958	12/03/19 22:51	SRW	TAL BUF
Total/NA	Analysis	9251		1	507743	12/03/19 01:57	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506626	11/25/19 13:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506658	11/25/19 15:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/22/19 07:12	CLA	TAL BUF
Total/NA	Analysis	SM 9223B		1	508299	11/20/19 20:40	CTB	KAT
Total/NA	Analysis	Field Sampling		1	509058	11/19/19 12:35	FLD	TAL BUF

Client Sample ID: W11-6E
Lab Sample ID: 480-162953-4
Date Collected: 11/19/19 12:12
Matrix: Ground Water
Date Received: 11/20/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505722	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	507461	11/29/19 23:38	LMH	TAL BUF
Total/NA	Prep	3010A			597372	11/21/19 16:43	PG	TAL SAV
Total/NA	Analysis	6020A		1	597704	11/22/19 20:55	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507740	12/02/19 22:40	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505988	11/21/19 11:03	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505785	11/20/19 13:57	RLM	TAL BUF
Total/NA	Analysis	9038		1	507744	12/03/19 01:57	KEB	TAL BUF
Total/NA	Analysis	9251		1	507743	12/03/19 01:59	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/11/19 10:30	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506626	11/25/19 13:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506662	11/25/19 15:40	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/22/19 07:28	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509058	11/19/19 12:12	FLD	TAL BUF

Client Sample ID: W12-4B
Lab Sample ID: 480-163033-1
Date Collected: 11/20/19 14:12
Matrix: Ground Water
Date Received: 11/21/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			506213	11/23/19 10:37	NSW	TAL BUF
Total/NA	Analysis	6010C		1	506777	11/26/19 08:08	LMH	TAL BUF
Total/NA	Prep	3010A			597770	11/25/19 09:09	AJR	TAL SAV
Total/NA	Analysis	6020A		1	598010	11/25/19 17:55	BJB	TAL SAV

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-4B
Lab Sample ID: 480-163033-1
Date Collected: 11/20/19 14:12
Matrix: Ground Water
Date Received: 11/21/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	310.2		2	507954	12/03/19 18:43	SRW	TAL BUF
Total/NA	Analysis	350.1		1	506187	11/22/19 09:34	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506081	11/21/19 17:59	BEF	TAL BUF
Total/NA	Analysis	9038		1	507958	12/03/19 19:42	SRW	TAL BUF
Total/NA	Analysis	9251		1	507957	12/03/19 20:07	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506865	11/26/19 13:50	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506909	11/26/19 15:42	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506871	11/22/19 22:01	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/20/19 14:12	FLD	TAL BUF

Client Sample ID: W12-3E
Lab Sample ID: 480-163033-2
Date Collected: 11/20/19 12:55
Matrix: Ground Water
Date Received: 11/21/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			506213	11/23/19 10:37	NSW	TAL BUF
Total/NA	Analysis	6010C		1	506777	11/26/19 08:12	LMH	TAL BUF
Total/NA	Prep	3010A			597770	11/25/19 09:09	AJR	TAL SAV
Total/NA	Analysis	6020A		1	598010	11/25/19 17:58	BJB	TAL SAV
Total/NA	Analysis	310.2		2	507954	12/03/19 19:18	SRW	TAL BUF
Total/NA	Analysis	350.1		1	506187	11/22/19 09:35	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506081	11/21/19 22:45	BEF	TAL BUF
Total/NA	Analysis	9038		1	507958	12/03/19 19:44	SRW	TAL BUF
Total/NA	Analysis	9251		1	507957	12/03/19 19:48	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/17/19 12:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506865	11/26/19 13:50	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506909	11/26/19 15:42	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506315	11/22/19 16:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509792	11/20/19 12:55	FLD	TAL BUF

Client Sample ID: W12-1E
Lab Sample ID: 480-163285-1
Date Collected: 11/25/19 12:23
Matrix: Ground Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			507008	11/27/19 09:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	507456	11/29/19 14:02	AMH	TAL BUF
Total/NA	Prep	3005A			508390	12/06/19 05:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508783	12/06/19 15:35	AMH	TAL BUF
Total/NA	Prep	3010A			598892	12/03/19 12:20	AJR	TAL SAV
Total/NA	Analysis	6020A		1	599175	12/04/19 14:27	BJB	TAL SAV
Total/NA	Analysis	310.2		1	508355	12/05/19 15:12	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-1E
Lab Sample ID: 480-163285-1
Date Collected: 11/25/19 12:23
Matrix: Ground Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	507091	11/27/19 09:30	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506943	11/26/19 18:27	BEF	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 20:40	SRW	TAL BUF
Total/NA	Analysis	9251		1	508402	12/05/19 17:14	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509275	12/18/19 09:43	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	507641	12/02/19 12:13	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	507371	11/29/19 13:53	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	507487	11/29/19 18:16	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511133	11/25/19 12:23	FLD	TAL BUF

Client Sample ID: 1040B
Lab Sample ID: 480-163965-1
Date Collected: 12/10/19 14:29
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 00:48	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 18:59	BWR	TAL SAV
Total/NA	Analysis	310.2		1	510700	12/18/19 16:08	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 15:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:04	BEF	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 13:38	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509802	12/13/19 14:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510161	12/16/19 20:14	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 10:34	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 14:29	FLD	TAL BUF

Client Sample ID: 1041B
Lab Sample ID: 480-163965-2
Date Collected: 12/10/19 12:40
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 00:52	EMB	TAL BUF
Total/NA	Prep	3010A			602296	12/27/19 13:22	AJR	TAL SAV
Total/NA	Analysis	6020A		1	602720	12/30/19 12:40	BWR	TAL SAV
Total/NA	Analysis	310.2		3	510700	12/18/19 15:52	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:40	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:07	BEF	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 1041B
Lab Sample ID: 480-163965-2
Date Collected: 12/10/19 12:40
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	510899	12/18/19 17:02	CSS	TAL BUF
Total/NA	Analysis	9038		2	510704	12/18/19 13:40	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509924	12/14/19 13:53	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510161	12/16/19 20:14	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 10:49	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 12:40	FLD	TAL BUF

Client Sample ID: 618AR
Lab Sample ID: 480-163965-3
Date Collected: 12/10/19 10:58
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 00:56	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 18:33	BWR	TAL SAV
Total/NA	Analysis	310.2		4	510700	12/18/19 16:26	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:10	BEF	TAL BUF
Total/NA	Analysis	410.4		1	510899	12/18/19 17:02	CSS	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 13:40	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:02	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509924	12/14/19 13:53	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 11:04	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 10:58	FLD	TAL BUF

Client Sample ID: 618CR
Lab Sample ID: 480-163965-4
Date Collected: 12/10/19 11:47
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 01:10	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 18:55	BWR	TAL SAV
Total/NA	Analysis	310.2		1	510700	12/18/19 16:08	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:11	BEF	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: 618CR
Lab Sample ID: 480-163965-4
Date Collected: 12/10/19 11:47
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	510704	12/18/19 14:22	SRW	TAL BUF
Total/NA	Analysis	9251		1	511207	12/20/19 18:12	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509924	12/14/19 13:53	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 11:49	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 11:47	FLD	TAL BUF

Client Sample ID: 624B
Lab Sample ID: 480-163965-5
Date Collected: 12/10/19 13:20
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 01:14	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 19:59	BWR	TAL SAV
Total/NA	Analysis	310.2		4	510700	12/18/19 17:00	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:12	BEF	TAL BUF
Total/NA	Analysis	410.4		1	510899	12/18/19 17:02	CSS	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 14:22	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:04	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509924	12/14/19 13:53	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 12:04	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 13:20	FLD	TAL BUF

Client Sample ID: DUP-GW-04
Lab Sample ID: 480-163965-6
Date Collected: 12/10/19 11:05
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 01:18	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 19:10	BWR	TAL SAV
Total/NA	Analysis	310.2		1	510700	12/18/19 16:08	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:13	BEF	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 14:23	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: DUP-GW-04
Lab Sample ID: 480-163965-6
Date Collected: 12/10/19 11:05
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9251		1	510703	12/18/19 16:07	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	510103	12/16/19 13:36	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 12:18	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 11:05	FLD	TAL BUF

Client Sample ID: W11-1B
Lab Sample ID: 480-163965-7
Date Collected: 12/10/19 11:05
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 01:22	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 19:14	BWR	TAL SAV
Total/NA	Analysis	310.2		1	510700	12/18/19 16:35	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:14	BEF	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 14:23	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:07	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509802	12/13/19 14:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 12:33	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 11:05	FLD	TAL BUF

Client Sample ID: W12-5E
Lab Sample ID: 480-163965-8
Date Collected: 12/10/19 13:37
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			509392	12/13/19 08:20	ADM	TAL BUF
Total/NA	Analysis	6010C		1	510482	12/18/19 01:25	EMB	TAL BUF
Total/NA	Prep	3010A			601743	12/23/19 09:45	AJR	TAL SAV
Total/NA	Analysis	6020A		1	601922	12/23/19 18:51	BWR	TAL SAV
Total/NA	Analysis	310.2		2	510700	12/18/19 15:53	SRW	TAL BUF
Total/NA	Analysis	350.1		1	509620	12/12/19 14:49	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:15	BEF	TAL BUF
Total/NA	Analysis	410.4		1	510899	12/18/19 17:02	CSS	TAL BUF
Total/NA	Analysis	9038		1	510704	12/18/19 14:23	SRW	TAL BUF
Total/NA	Analysis	9251		1	510703	12/18/19 16:07	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Client Sample ID: W12-5E
Lab Sample ID: 480-163965-8
Date Collected: 12/10/19 13:37
Matrix: Ground Water
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	509802	12/13/19 14:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	509834	12/13/19 12:47	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/10/19 13:37	FLD	TAL BUF

Client Sample ID: W12-2E
Lab Sample ID: 480-164496-2
Date Collected: 12/19/19 11:08
Matrix: Ground Water
Date Received: 12/20/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			511610	12/24/19 09:27	NSW	TAL BUF
Total/NA	Analysis	6010C		1	511800	12/24/19 18:13	EMB	TAL BUF
Total/NA	Prep	3010A			603294	01/09/20 10:43	AJR	TAL SAV
Total/NA	Analysis	6020A		1	603398	01/09/20 15:43	BJB	TAL SAV
Total/NA	Analysis	310.2		1	511524	12/23/19 16:55	SRW	TAL BUF
Total/NA	Analysis	350.1		1	512498	01/06/20 09:38	CLT	TAL BUF
Total/NA	Analysis	353.2		1	511169	12/20/19 14:11	RLM	TAL BUF
Total/NA	Analysis	9038		1	511541	12/23/19 17:42	SRW	TAL BUF
Total/NA	Analysis	9251		1	511540	12/23/19 19:52	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	513517	01/14/20 11:13	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	511264	12/21/19 13:33	CSS	TAL BUF
Total/NA	Analysis	SM 2540C		1	511631	12/24/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	511438	12/23/19 11:14	CSS	TAL BUF
Total/NA	Analysis	Field Sampling		1	513369	12/19/19 11:08	FLD	TAL BUF

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Ground Water	Sulfate
9038		Water	Sulfate
9251		Ground Water	Chloride
9251		Water	Chloride
Field Sampling		Ground Water	Depth to Water from Top of Casing
Field Sampling		Ground Water	Field EH/ORP
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Ground Water Elevation
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Purge Rate
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Temperature
Field Sampling		Ground Water	Turbidity
Field Sampling		Water	Depth to Water from Top of Casing
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Ground Water Elevation
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity
SM 1030E		Ground Water	Anion/Cation Balance
SM 1030E		Ground Water	Calculated TDS
SM 1030E		Ground Water	TDS Ratio
SM 1030E		Ground Water	TDS to Conductivity Ratio

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

Method Summary

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
SM 9223B	Coliforms, Total, and E.Coli	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-2019 GW Tri-ann event

Job ID: 480-162327-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-162327-1	620A	Ground Water	11/07/19 13:29	11/08/19 10:00	
480-162327-2	620C	Ground Water	11/07/19 14:20	11/08/19 10:00	
480-162327-3	630E	Ground Water	11/07/19 11:41	11/08/19 10:00	
480-162327-4	629B	Ground Water	11/07/19 11:05	11/08/19 10:00	
480-162327-5	629E	Ground Water	11/07/19 10:20	11/08/19 10:00	
480-162327-6	630B	Ground Water	11/07/19 12:35	11/08/19 10:00	
480-162382-1	101C	Ground Water	11/08/19 13:44	11/09/19 10:00	
480-162382-2	W11-4E	Ground Water	11/08/19 10:31	11/09/19 10:00	
480-162382-3	W11-5B	Ground Water	11/08/19 12:03	11/09/19 10:00	
480-162382-4	W11-5E	Ground Water	11/08/19 11:16	11/09/19 10:00	
480-162477-1	W-11-1ER	Water	11/11/19 13:28	11/12/19 10:00	
480-162477-2	1008BR2	Water	11/11/19 12:06	11/12/19 10:00	
480-162477-3	1008ER2	Water	11/11/19 11:16	11/12/19 10:00	
480-162477-4	W11-2E	Water	11/11/19 14:00	11/12/19 10:00	
480-162477-5	627A	Water	11/11/19 12:51	11/12/19 10:00	
480-162477-6	310AW	Water	11/11/19 10:41	11/12/19 10:00	
480-162477-7	W12-4E	Water	11/11/19 11:26	11/12/19 10:00	
480-162577-1	106CR	Ground Water	11/12/19 16:36	11/13/19 09:30	
480-162577-2	106DR	Ground Water	11/12/19 15:14	11/13/19 09:30	
480-162577-3	106WR	Ground Water	11/12/19 13:54	11/13/19 09:30	
480-162577-4	DUP-GW-01	Ground Water	11/12/19 13:54	11/13/19 09:30	
480-162641-1	107CR	Ground Water	11/13/19 11:15	11/14/19 10:00	
480-162641-2	107BR	Ground Water	11/13/19 12:02	11/14/19 10:00	
480-162641-3	W12-1B	Ground Water	11/13/19 13:32	11/14/19 10:00	
480-162641-4	DUP-GW-02	Ground Water	11/13/19 13:32	11/14/19 10:00	
480-162641-5	310C	Ground Water	11/13/19 15:32	11/14/19 10:00	
480-162641-6	310D	Ground Water	11/13/19 15:09	11/14/19 10:00	
480-162730-1	1134B	Ground Water	11/14/19 13:13	11/15/19 11:30	
480-162730-2	W11-3E	Ground Water	11/14/19 14:05	11/15/19 11:30	
480-162893-1	104C	Ground Water	11/18/19 11:06	11/19/19 10:00	
480-162893-2	104D	Ground Water	11/18/19 11:15	11/19/19 10:00	
480-162893-3	617A	Ground Water	11/18/19 12:16	11/19/19 10:00	
480-162893-4	617C	Ground Water	11/18/19 12:59	11/19/19 10:00	
480-162893-5	W9-1E	Ground Water	11/18/19 13:51	11/19/19 10:00	
480-162893-6	W9-2E	Ground Water	11/18/19 13:32	11/19/19 10:00	
480-162893-7	DUP-GW-03	Ground Water	11/18/19 12:59	11/19/19 10:00	
480-162953-1	626B	Ground Water	11/19/19 14:09	11/20/19 09:45	
480-162953-2	628A	Ground Water	11/19/19 11:44	11/20/19 09:45	
480-162953-3	TRANS	Ground Water	11/19/19 12:35	11/20/19 09:45	
480-162953-4	W11-6E	Ground Water	11/19/19 12:12	11/20/19 09:45	
480-163033-1	W12-4B	Ground Water	11/20/19 14:12	11/21/19 09:45	
480-163033-2	W12-3E	Ground Water	11/20/19 12:55	11/21/19 09:45	
480-163285-1	W12-1E	Ground Water	11/25/19 12:23	11/26/19 10:00	
480-163965-1	1040B	Ground Water	12/10/19 14:29	12/11/19 10:00	
480-163965-2	1041B	Ground Water	12/10/19 12:40	12/11/19 10:00	
480-163965-3	618AR	Ground Water	12/10/19 10:58	12/11/19 10:00	
480-163965-4	618CR	Ground Water	12/10/19 11:47	12/11/19 10:00	
480-163965-5	624B	Ground Water	12/10/19 13:20	12/11/19 10:00	
480-163965-6	DUP-GW-04	Ground Water	12/10/19 11:05	12/11/19 10:00	
480-163965-7	W11-1B	Ground Water	12/10/19 11:05	12/11/19 10:00	
480-163965-8	W12-5E	Ground Water	12/10/19 13:37	12/11/19 10:00	
480-164496-2	W12-2E	Ground Water	12/19/19 11:08	12/20/19 10:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-162327-1
Project/Site: Crossroads ME-2019 GW Tri-ann event

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Calcium	Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Water	Total/NA	mg/L	0.030	0.05
6010C	Lead	Ground Water	Total/NA	mg/L	0.0050	0.01
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Potassium	Ground Water	Total/NA	mg/L	0.20	0.50
6010C	Potassium	Water	Total/NA	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Water	Total/NA	mg/L	0.40	1.0
6020A	Aluminum	Ground Water	Total/NA	mg/L	0.050	0.1
6020A	Aluminum	Water	Total/NA	mg/L	0.050	0.1
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
9251	Chloride	Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10
SM 2540C	Total Dissolved Solids	Water	Total/NA	mg/L	5.0	10

December 2, 2019

Ms. Candice Fox
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: TM2287
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): November 19, 2019

Dear Ms. Fox:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

12/02/2019

Date

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Candice Fox
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: TM2287
Waste Management -
Project: Crossroads
Client PO:
Report Date: 02-DEC-19

Lab ID: TM2287-1 **Client ID:** TRANSFER STATION **Collected Date:** 19-NOV-19 12:35:00 **Received Date:** 19-NOV-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	Absent /100mL	19-NOV-19	20-NOV-19 20:40:00	HM	HM	SM 9223B
Total Coliforms	Present /100mL	19-NOV-19	20-NOV-19 20:40:00	HM	HM	SM 9223B

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC. **Sample Receipt Condition Report**

Client: Crossroads WM	KAS PM: GN	Sampled By: KA
Project:	KIMS Entry By:	Delivered By: KA
KAS Work Order#: TM2287	KIMS Review By:	Received By:
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 1825 11/19/19

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): 4.4°C — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):		Address:	
Sampler (Print/Sign): Katrina Aman / KA			Copies To:

LAB USE ONLY Work Order #: **TM 2287**
Katahdin Project Number
Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: Total Coliform	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	Transfer Station	11/19/2019 1235	AQ	1	1										

COMMENTS:

Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:
Katrina Aman KA	11/19/19 1830	JCB			
Relinquished By:	Date/Time	Received By:	Relinquished By:	Date/Time	Received By:

All laboratory and field work shall be governed by KATAHDIN's Standard Terms and Conditions, except where a Purchase Order or Contract supersede.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 02, 2019
11:06 AM

Login Number: TM2287

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Candice Fox
Test America
10 Hazelwood Drive

Amherst,NY 14228

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	4.4
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	EGL
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
TM2287-1	TRANSFER STATION	19-NOV-19 12:35	19-NOV-19			01-DEC-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_COLIFORMS_COL	20-NOV-19			
Aqueous	S	EM_ECOLI_COL	20-NOV-19			

Total Samples: 1 ***Total Analyses: 2***

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Lorelio	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.5
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page:

Company: Katahdin Analytical Services

Address: PO BOX 540 600 Technology Way
City: Scarborough
State, Zip: ME, 04074
Phone:
Email: nadams@katahdinlab.com
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

480-162327 Chain of Custody

Analysis Requested

F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~620C~~ 620A	11/7/19	1329	G	Water			1	0		2	1	1	X		2	1	1	0	1	11	
~~624B~~ 620C	11/7/19	1420	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~626B~~ 630E	11/7/19	1141	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~627A~~				Water																	
~~628A~~				Water																	
~~629B~~				Water																	
~~629E~~				Water																	
~~630B~~				Water																	
~~630E~~				Water																	
~~W11-1B~~				Water																	
~~W11-2E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/7/19 1700	KAS		11/8/19 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.8

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Louleiro	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.1
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~TRANS~~ 629 B	11/7/19	1105	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~1008BR2~~ 629 E	11/7/19	1020	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~1008ER2~~ 630 B	11/7/19	1235	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~101C~~				Water																	
~~1040B~~				Water																	
~~1041B~~				Water																	
~~104C~~				Water																	
~~104D~~				Water																	
~~106CR~~				Water																	
~~106DR~~				Water																	
~~106WR~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/7/19 1700	Company KAS	Received by:	Date/Time: 11/8/19 1000	Company FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.9

Ver: 01/16/2019

TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

480-162382 Chain of Custody

Client Information

Client Contact: Nick Adams	Sampler: Agustin Loureiro	Lab PM: Giglia, Denise L	Carrier Tracking No(s):
Company: Katahdin Analytical Services	Phone: 603 4254265	E-Mail: denise.giglia@testamericainc.com	COC No: 480-136437-30688.7

Address: PO BOX 540 600 Technology Way
City: Scarborough
State, Zip: ME, 04074
Phone:
Email: nadams@katahdinlab.com
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

Analysis Requested

D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Q - [illegible]
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~W11-3E~~ 101C	11/8/19	1344	G	Water			1			2	1	1	X		2	1	1	1	1	11	
W11-4E	11/8/19	1031	G	Water			1			2	1	1	X		2	1	1	1	1	11	
W11-5B	11/8/19	1203	G	Water			1			2	1	1	X		2	1	1	1	1	11	
W11-5E	11/8/19	1116	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~W11-6E~~				Water																	
~~W12-1B~~				Water																	
~~W12-1E~~				Water																	
~~W12-2E~~				Water																	
~~W12-3E~~				Water																	
~~W12-4B~~				Water																	
~~W12-4E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	11/8/19 1700	KAS	Wallace	11/9/19 1000	TAS
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #12.9

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Lorerio	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.7
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 7 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~W11-3E~~ W11-1E	11/11/19	1328	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~W11-4E~~ 1008BR2	11/11/19	1206	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~W11-5B~~ 1008ER2	11/11/19	1116	G	Water			1			2	1	1	X		2	1	1	1	1	11	
~~W11-5E~~				Water																	
~~W11-6E~~				Water																	
~~W12-1B~~				Water																	
~~W12-1E~~				Water																	
~~W12-2E~~				Water																	
~~W12-3E~~				Water																	
~~W12-4B~~				Water																	
~~W12-4E~~				Water																	

480-162477 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/11/19 1700	KAS	[signature]	11/12/19 1000	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.7, 2.5

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Loureiro	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.9
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 9 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~W12-5E~~ W11-2E	11-11-19	1400	G	Water			1			02	1	1	X		2	1	1	1	1	11	
~~W9-1E~~ 627 A	11-11-19	1251	G	Water			1			02	1	1	X		2	1	1	1	1	11	
~~W9-2E~~ 310 AW	11-11-19	1041	G	Water			1			02	1	1	X		2	1	1	1	1	11	
~~W11-1ER~~ W12-4E	11-11-19	1126	G	Water			1			02	1	1	X		2	1	1	1	1	11	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/11/19 1700	Company KAS	Received by:	Date/Time: 11/12/19 1000	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.7, 2.5

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: NICK ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.3
Client Contact: Nick Adams	Phone: (207)853-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2; 353.2_Nitrite; 9038; 9251; Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~107BR~~ 106WR	11/12/19	1354	G	Water	N	N	1		X	2	1	1	X		2	1	1	1	1	11	*COC WAS FILLED
~~107CR~~ GW-DUP-01		1354		Water																	OUT ACCORDING
~~1134B~~ 106DR		1514		Water																	TO BOTTLE LABELS.
~~310AW~~ 106CR		1636		Water																	NO METALS WERE
~~310C~~				Water																	FIELD-FILTERED
~~310D~~				Water																	DESPITE LABELS
~~617A~~				Water																	AND COC STATING
~~617C~~				Water																	"DISSOLVED."
~~618AR~~				Water																	
~~618CR~~				Water																	
~~620A~~				Water																	

480-162577 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/12/19 1800	KAS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	11/13/19 930	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.4 #1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS/AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.1
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~TRANS~~ 107CR	11/13/19	1115	G	Water	N	N	1		X	2	1	1	X		2	1	1	1	1	11	* ~~[illegible]~~ CHAIN
~~1008BR2~~ 107BR		1202		Water																	WAS FILLED OUT
~~1008ER2~~ W12-1B		1332		Water																	ACCORDING TO
~~101G~~ GW-DVP-02		1332		Water																	BOTTLE LABELS, NO
~~1040B~~ ~~B~~				Water																	METALS WERE
~~1041B~~ B				Water																	FIELD-FILTERED
~~104C~~				Water																	DESPITE C.O.C.
~~104D~~				Water																	AND LABELS SAYING
~~106CR~~				Water																	"DISSOLVED"
~~106DR~~				Water																	
~~106WR~~				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sam
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

480-162641 Chain of Custody

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/13/19 1800	EAS	[signature]	11/14/19 1000	EAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.6, 3.0

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS / AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.5
Client Contact: Nick Adams	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 5 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~620C~~ 310C	11/13/19	1532	G	Water	N	N	1		X	2	1	1	X		2	1	1	1	1		*CHAIN WAS
~~624B~~ 310D	↓	1509	↓	Water	↓	↓	1		X	2	1	1	X		2	1	1	1	1		FILLED OUT
~~626B~~				Water																	ACCORDING TO
~~627A~~				Water																	BOTTLE LABELS. NO
~~628A~~				Water																	METALS WERE
~~629B~~				Water																	FIELD-FILTERED DESPITE
~~629E~~				Water																	C.O.C. AND
~~630B~~				Water																	LABELS SAYING
~~630E~~				Water																	"DISSOLVED."
~~W11-1B~~				Water																	
~~W11-2E~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Katahdin	11/13/19 1800	KAS	Caroline	11/14/19 0800	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 2.6, 3.0

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136437-30688.9
Client Contact: Nick Adams	Phone: (207)831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 9 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: 2019 GW 2nd&3rd tri-Annual	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - ICP metals	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	9223B - Coliforms, Total	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)	6010C - Dissolved Metals ICP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	R	N	N	D	D	D		
~~W12-5E~~ 1134B	11/14/19	1313	G	Water	N	N	1		X	2	1	1	X		2	1	1	1		10	
~~W9-1E~~ W11-3E	↓	1405	G	Water	N	N	1		X	2	1	1	X		2	1	1	1		10	
~~W9-2E~~				Water																	
~~W11-1ER~~				Water																	

480-162730 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/14/19 1630	KAS	Wallace	11/15/19 1130	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.2

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.7
Client Contact: Nick Adams	Phone: (508)821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 7 of 6
Company: Katahdin Analytical Services				
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

480-162953 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (Al)	~~350.1, 410.4~~ Coliform	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
~~W9-2E~~ 628A	11/19/19	1144	G	Water			1	1		2	1	1	X	2	1	1					*Sample taken
~~DUP-GW-03~~ 626B		1409		Water			1	1		2	1	1	X	2	1	1					to Katahdin
~~DUP-GW-04~~ W11-6E		1212		Water			1	1		2	1	1	X	2	1	1					due to short
~~1008BR2~~ Trans		1235		Water			1	1		2	1	1	X	2	1	1	*				hold time.
~~1008ER2~~				Water																	
~~1041B~~				Water																	
~~106GR~~				Water																	
~~108WR~~				Water																	
~~617A~~				Water																	
~~617C~~				Water																	
~~618AR~~				Water																	

C - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, K - $Na_2S_2O_3$, S - H_2SO_4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Katahdin	11/19/19 1800	KAS	Cwallace	11/20/19 0945	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.4

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136701-25871.1
Client Contact: Nick Adams	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Wick Drain's - (4,8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation Anion Balance	8260C - Volatiles	5310C - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	120.1, 353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	D	N	A	A	N	N	N	N		
TB *				Water														*TB are
~~SBCWD~~	11/20/19	1145	G	Water	N		3	1	1/1	1		2	1	X	2	1		included
W12-4B	↓	1412	↓	↓				1	1/1	1		2	1	X	2	1		w/ SBCWD
W12-3E	↓	1255	↓	↓				1	1/1	1		2	1	X	2	1		

480-163033 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/20/19 1880	KAS	[signature]	11/21/19 0945	NAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1°,

Ver: 01/16/2019

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: ADAMS	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Sherwood McKenney	Phone: 831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Waste Management - Norridgewock ME - (Crossroads)				Job #:
Address: 357 Mercer Road	Due Date Requested:			
City: Norridgewock	TAT Requested (Business Days)			
State, Zip: ME, 04957				
Phone: 000-0000	PO #: Purchase Order not required			
Email:	WO #:			
Project Name: Crossroads ME/	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C Total Metals ICP (13)	SM5310D - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	2540D - Total Suspended Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	8260B - (MOD) Appendix Volatiles	350.1, 440.4	6020A Total Metals ICPMS (Al)	Cation_Anion - (MOD) Local Method	DIS-METALS	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:		X	X	S	D	A	N	N	N	N	N	A	S	D	N	N	X	
WR2-1E	11/25/19	1223	G	Water	Y	N	1	1	2	1	1	X	2	1			1	X	1	11	FILTERED METALS
				Water																	BOTTLE NOT PRESERVED.
				Water																	LOW YIELD WELL
																					PREVENTED ALL
																					BOTTLES FROM
																					FILLING.

480-163285 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/25/19 1800	KAS	Cam Krow Cuco 10	11/26/19 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6# ICE

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Lavretto	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.3
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:
J - DI Water
K - EDTA
L - EDA
W - pH 4-5
Z - other (specify)
Other:

480-163965 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP +	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
[redacted] W12-5E	12/10/19	1337	G	Water			1	1		2	1	1	X	2	1	1		4		10	
[redacted] 1040 B	12/10/19	1429	G	Water			1	1		2	1	1	X	2	1	1					
[redacted] 1041B	12/10/19	1240	G	Water			1	1		2	1	1	X	2	1	1					
[redacted] 624B	12/10/19	1320	G	Water			1	1		2	1	1	X	2	1	1					
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	12/10/19 1800		[signature]	12/11/19 1000	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.7

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Agustin Lorenzo	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133057-29962.3
Client Contact: Nick Adams	Phone: 603 425 4265	E-Mail: denise.giglia@testamericainc.com		Page: Page 3 of 6
Company: Katahdin Analytical Services				Job #:
Address: PO BOX 540 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (days):			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order Requested			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Groundwater (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	6010C - (MOD) Total Metals ICP (7)	Cation_Anion - (MOD) Local Method	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Total Metals ICPMS (AI)	350.1, 410.4	6010C - (MOD) Total Metals ICP + Pb	6010C - (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N	D	S	D	D		
[redacted] WIA - 1B	12/10/19	1105	G	Water			1	1			2	1	1	X	2	1	1				
[redacted] 618 CR	12/10/19	1147	G	Water			1	1			2	1	1	X	2	1	1				
[redacted] 618 AR	12/10/19	1058	G	Water			1	1			2	1	1	X	2	1	1				
[redacted] Dup-04	12/10/19	1105	G	Water			1	1			2	1	1	X	2	1	1				
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[redacted]	12/10/19 1800		Cwallace	12/11/19 1000	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver: 01/16/2019

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: A. Loureiro	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No:
Client Contact: Nick Adams	Phone: 207-831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page:
Company: Katahdin Analytical Services				Job #: 164496
Address: 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (Business Days)			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order not required			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME Semi Annual Groundwater (8, 11)	Project #: 48003284			
Site: Maine	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A Total Metals ICPMS (AI)	6010C - Total Metals ICP (7)				Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	N	A	N	N	N	N	N	D	D					
W12-2E	12/19/19	1108	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Possible Hazard Identification

☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Agustin Loureiro	Date/Time: 12/19/19 1500	Company: Katahdin Analytical	Received by: Denise Giglia	Date/Time: 12/20/19 1000	Company: ETAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Adams/Loureiro/Aman	Lab PM: Denise Giglia	Carrier Tracking No(s): :	COC No: 162893
Client Contact: Nick Adams	Phone: 207-831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page: 1 of 2
Company: Katahdin Analytical Services				Job #:
Address: 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (Business Days)			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order not required			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	Cation_Anion - Cation_Anion	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A Total Metals ICPMS (Al)	6010C - Total Metals ICP (7)				Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code.				S	N	A	N	N	N	N	N	D	D					
104C	11/18/19	1106	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	
104D	11/18/19	1115	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	
W9-1E	11/18/19	1351	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	
W9-2E	11/18/19	1332	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	

Preservation Codes:

A -HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P- Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R- Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Nick Adams	Date/Time: 11/18/19 1800	Company Katahdin Analytical	Received by: Kate Carlson	Date/Time: 11-19-20 1000	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No . |

Cooler Temperature(s) °C and Other Remarks: #2 - 3.0 + 3.2

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Adams/Loureiro/Aman	Lab PM: Denise Giglia	Carrier Tracking No(s):	COC No: 162893
Client Contact: Nick Adams	Phone: 207-831-9250	E-Mail: Denise.Giglia@testamericainc.com		Page: 2 of 2
Company: Katahdin Analytical Services				Job #:
Address: 600 Technology Way	Due Date Requested:			
City: Scarborough	TAT Requested (Business Days)			
State, Zip: ME, 04074				
Phone:	PO #: Purchase Order not required			
Email: nadams@katahdinlab.com	WO #:			
Project Name: Crossroads ME	Project #:			
Site: Maine	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastekill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	Cation_Anion - Cation_Anion	6310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A Total Metals ICPMS (Al)	6010C - Total Metals ICP (7)				Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				S	N	A	N	N	N	N	N	O	D					
617A	11/18/19	1216	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	
617C	11/18/19	1259	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	
GW-DUP-03	11/18/19	1259	G	Water	N	N	1	X	2	1	1	X	2	1	1	1				10	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2 SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Nick Adams	Date/Time: 11/18/19 1800	Company: Katahdin Analytical	Received by: Katelyn Ferguson	Date/Time: 11/19/20 1000	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 620A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/07/19	1325	02	01 L	01 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 26659 (ft/msl)

Depth to Water (DTW) (from TOC): 845 (ft)

Groundwater Elevation (site datum, from TOC): 258 14 (ft/msl)

Total Well Depth (from TOC): 1450 (ft)

Stick Up (from ground elevation): 646 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or state Permit/State requirements*		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/07/19	823	93	73	148	59	-845	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 7 SW — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agustin Lavreiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 620C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/07/19	1339	:40	03	40	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26174 (ft/msl)	491 (ft)	25183 (ft/msl)	4215 (ft)	298 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or some Permit/State requirements		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/07/19	8.51	185	8.2	0.8	1.9	-103.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): — Direction/Speed: 7 SW — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agustin Loureiro		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 630E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
110719	1138	101	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment...Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26957 (ft/msl)	787 (ft)	26170 (ft/msl)	1200 (ft)	427 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consecutive readings or state Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
110719	644	183	80	28	67	-651	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: None — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 7 SW — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agustin Barrero		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 629B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 07 19	1029	135	~~4.08~~ 4.02 L	1.05 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2651.4 (ft/msl)

Depth to Water (DTW) (from TOC): 171.1 (ft)

Groundwater Elevation (site datum, from TOC): 2480.3 (ft/msl)

Total Well Depth (from TOC): 360 (ft)

Stick Up (from ground elevation): 3.75 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested (Appr. for) consec. readings or some Permit/State requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 07 19	863	159	102	00	07	-170.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 7 SW — Outlook: cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 6296 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
110719	1016	02	01	01 C	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2658 (ft/msl)

Depth to Water (DTW) (from TOC): 1519 (ft)

Groundwater Elevation (site datum, from TOC): 25049 (ft/msl)

Total Well Depth (from TOC): 2100 (ft)

Stick Up (from ground elevation): 390 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 3%	–		+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
110719	783	233	73	07	82	-772	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 7 SW — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agustin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 630B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/07/19	1159	35	04	79	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2685 (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 5400 (ft)

Stick Up (from ground elevation): 345 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 cons. readings or per Permit/State requirements		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/07/19	885	160	97	06	05	-163 7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): — Direction/Speed: 7 SW — Outlook: cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols. If more than one sampler, all should sign):

Date	Name	Signature	Company
11/07/19	Agostin Loureiro	[signature]	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 101C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
110819	1303	:40	03	44	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 27225 (ft/msl)

Depth to Water (DTW) (from TOC): 1807 (ft)

Groundwater Elevation (site datum, from TOC): 25418 (ft/msl)

Total Well Depth (from TOC): 4200 (ft)

Stick Up (from ground elevation): 170 (ft)

Casing ID: 15 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
110819	768	163	75	15	11	-1445	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 14 NW — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11,08,19	Agustin Loureiro		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: | | | | |

Sample Point: W | 1 | 1 | - | 4 | E

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
11 08 19	1026	103	01	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: ✓

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: ✓

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27721 (ft/msl)	2173 (ft)	25548 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3400 (ft)	337 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
11 08 19	660	550	53	52	51	-106 7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: Clear Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ~~0~~ 14 NW Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 08, 19	Agustin Loureiro		LAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Closloads

Site No.:

Sample Point: W l l - 5 B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 08 19	1127	:35	03 L	70 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
273.19 (ft/msl)	25.68 (ft)	247.51 (ft/msl)

Total Well Depth (from TOC): 6000 (ft)
Stick Up (from ground elevation): 2.79 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 08 19	7.58	157	7.8	0.4	0.9	-159.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 14 NW Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/08/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: W11-5E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
110819	1112	:02	.01	.01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ✓ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27328 (ft/msl)	1482 (ft)	25846 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2300 (ft)	798 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
110819	692	192	52	26	27	-1223	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: None Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N NW Outlook: Cloudy Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/08/19	Agustin Loureiro	[signature]	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.: ____ Sample Point: W1-1E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
11/11/19	1320	:04	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other: ____
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2720.7 (ft/msl)
Depth to Water (DTW) (from TOC): 8.47 (ft)
Groundwater Elevation (site datum, from TOC): 2636.0 (ft/msl)
Total Well Depth (from TOC): 19.56 (ft)
Stick Up (from ground elevation): 3.56 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ____	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11/11/19	7.15	254	6.8	00	7.9	-86.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other: ____
Weather Conditions (required daily, or as conditions change): Direction/Speed: SW Outlook: Cloudy Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 108BR2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 11 19	11:30	3.5	04	50	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2715.2 (ft/msl)
Depth to Water (DTW) (from TOC): 12.45 (ft)
Groundwater Elevation (site datum, from TOC): 2580.7 (ft/msl)
Total Well Depth (from TOC): 61.20 (ft)
Stick Up (from ground elevation): 2.52 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 11 19	7.92	1512	6.9	0.0	5.8	-49.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 8 N Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Katrina Aman	Katrina	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 1608ER2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/11/19		:02	0.1	0.1	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
Sample Tube Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2715.50 (ft/msl)
Depth to Water (DTW) (from TOC): 9.25 (ft)
Groundwater Elevation (site datum, from TOC): 2626.25 (ft/msl)
Total Well Depth (from TOC): 1900 (ft)
Stick Up (from ground elevation): 2.80 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/Site requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11/11/19	6.34	556	6.4	0.0	1.9	60	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal
Odor: None
Color: Clear
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: 8N
Outlook: Cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: W-11-2E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 11 19	1356	:02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26663 (ft/msl)	517 (ft)	261.46 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1200 (ft)	293 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 11 19	7.73	242	27	52	6.4	186.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 8 N Outlook: Cloudy Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Agustin Lavierd		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 627A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 11 19	1239	:10	05	05	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 24199 (ft/msl)
Depth to Water (DTW) (from TOC): 231 (ft)
Groundwater Elevation (site datum, from TOC): 23968 (ft/msl)
Total Well Depth (from TOC): 5650 (ft)
Stick Up (from ground elevation): 289 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st							
		2nd							
		3rd							
		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 11 19	752	157	41	20	77	1842	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S N Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Agustin Cuevas		LCAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: 310AW (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
111119	1037	02	0.1	0.1	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: /

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
27538 (ft/msl)	455 (ft)	24083 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1500 (ft)	368 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
111119	7.53	164	30	1.4	1.29	223.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 8 N — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 11, 19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Cross

Site No.: ____ Sample Point: W12-4E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
11/11/19	1123	01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ✓ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ✓ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2519.9 (ft/msl)

Depth to Water (DTW) (from TOC): 705 (ft)

Groundwater Elevation (site datum, from TOC): 2494.94 (ft/msl)

Total Well Depth (from TOC): 1000 (ft)

Stick Up (from ground elevation): 2.45 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11/11/19	6.93	184	4.5	1.7	1.19	218.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 8N Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/11/19	Agustin Lavierro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.: ____ Sample Point: 106CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/12/19	15:45	:52	01	10.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable B-Pressure C-Vacuum X-Other ____
Sample Tube Type: /
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC): 2662.7 (ft/msl)
Depth to Water (DTW) (from TOC): 19.95 (ft)
Groundwater Elevation (site datum, from TOC): 2463.7 (ft/msl)
Total Well Depth (from TOC): 326.0 (ft)
Stick Up (from ground elevation): 2.63 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/12/19	7.43	519	9.5	1.10	1.1	+112.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/12/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: 106DR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
11/12/19	1443	:30	03	66	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C — X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2661.5 (ft/msl)	19.86 (ft)	2462.9 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
56.00 (ft)	2.65 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units ____
11/12/19	7.04	607	10.1	1.1	1.3	158.6	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL — Odor: NONE — Color: CLEAR — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 10-15 — Outlook: CLOUD — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11.12.19	NICK ADAMS	Nick Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: 106WR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
11/12/19	1313	:40	01	160	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other:

Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
26580 (ft/msl)	1920 (ft)	24660 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2600 (ft)	267 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/12/19	6.17	300	11.7	87	6.8	171.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 10-15 Outlook: CLOUDY Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

GW-DUP-01 TAKEN HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/12/19	NICK ADAMS	N Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS

Site No.:

Sample Point: GW-DUP-01 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: 7

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: 7

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Rate/Unit: ____

Sample Time (2400 Hr Clock)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st					
	2nd	2nd					
	3rd	3rd					
	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:	+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/12/19	6.17	300	11.7	8.7	6.8	172	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 10-15 Outlook: CLOUDY Precipitation (Y) or N

Specific Comments (including purge/well volume calculations if required):

COLLECTED AT 106WR

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/12/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads

Site No.:

Sample Point: 107CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 19	1106	106	02	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2657.11 (ft/msl)

Depth to Water (DTW) (from TOC): 20.55 (ft)

Groundwater Elevation (site datum, from TOC): 2451.6 (ft/msl)

Total Well Depth (from TOC): 36.70 (ft)

Stick Up (from ground elevation): 3.07 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consecutive readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 13 19	7.79	346	10.5	00	4.7	-63.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal **Odor:** None **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** S-10 NW **Outlook:** Sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 1078R
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/13/19	1130 KA	30	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
2613	2085	2528

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
1800	281	2	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/13/19	6.77	670	9.1	0.8	0.3	+153	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear KA Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8028WM (0108) 1/17/2020 (Rev. 1)

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W12-18 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 13 19	1306	:25	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 25207 (ft/msl)
Depth to Water (DTW) (from TOC): 715 (ft)
Groundwater Elevation (site datum, from TOC): 24492 (ft/msl)
Total Well Depth (from TOC): 1900 (ft)
Stick Up (from ground elevation): 140 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:		1st	1st					
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	-	-	+/-.10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
11 13 19	816	224	79	00	03	2226	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: Normal
Odor: None
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10 NW
Outlook: Sunny
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: MW-3 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/13/19	1511	:20	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2736 (ft/msl)	268 (ft)	2708 (ft/msl)	6190 (ft)	206 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/13/19	8.72	158	7.5	23	9.2	-127	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal **Odor:** None **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** S-10 NW **Outlook:** Sunny **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/19	Katrina Amao	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: C105Roads | Site No.: | Sample Point: MW-10D | Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/13/19	1431	35			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — Sampling Device: C — X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2727.0 (ft/msl)	16.3 (ft)	2711.07 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
185.00 (ft)	1.50 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units
11/13/19	7.33	1349	4.5	0.8	4.8	-156	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal — **Odor:** None — **Color:** clear — **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 5-10 NW — **Outlook:** NW KA Sunny — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/13/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.: ____ Sample Point: 1134B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/14/19	1237	135	24	69	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other: ____
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2748.9 (ft/msl)
Depth to Water (DTW) (from TOC): 228.0 (ft)
Groundwater Elevation (site datum, from TOC): 252.09 (ft/msl)
Total Well Depth (from TOC): 200.0 (ft)
Stick Up (from ground elevation): 3.49 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	-	-	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units
11/14/19	9.16	238	8.2	0.0	1.7	503	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: NORMAL
Odor: NONE
Color: CLEAR
Other: ____
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S 0-5
Outlook: CLOUDY
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/19	NICK ADAMS	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W1143E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/14/19	1400	:02	0	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2619.3 (ft/msl)
Depth to Water (DTW) (from TOC): 4.62 (ft)
Groundwater Elevation (site datum, from TOC): 2573.1 (ft/msl)
Total Well Depth (from TOC): 15.00 (ft)
Stick Up (from ground elevation): 3.09 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consecutive readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/14/19	8.09	300	5.5	0.0	1.46	155.5	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: NORMAL
Odor: NONE
Color: CLEAR
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S 0-5
Outlook: CLOUDY
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/14/19	NICK ADAMS	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: 1046 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 18 19	1100	:04	.02 L	.02 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below:

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ✓ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ✓ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
25650 (ft/msl)	652 (ft)	24998 (ft/msl)	5280 (ft)	122 (ft)	1.5 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	816	191	46	04	82	-643	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal **Odor:** none **Color:** clear **Other:** ____

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** calm **Outlook:** cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11, 18, 19	Agustin Loureiro	[signature]	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.: ____ Sample Point: 104D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/18/19	1104	09	04 L	05 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
25647 (ft/msl)	618 (ft)	25029 (ft/msl)	5280 (ft)	122 (ft)	15 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:		1st	1st					
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	-	-	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	762	280	58	08	112	-83	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change): **Direction/Speed:** Calm **Outlook:** Cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Agustin Lourenco		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 617A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 18 19	1212	02	01 L	01 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B — Sampling Device: B

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle, X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26866 (ft/msl)	37.28 (ft)	26494 (ft/msl)	1450 (ft)	336 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1st	1st	1st					
2nd	2nd	2nd	2nd					
3rd	3rd	3rd	3rd					
4th	4th	4th	4th					
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 3%	~	~	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	6.87	332	4.0	1.10	2.9	550	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: normal — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): — Direction/Speed: calm — Outlook: cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

11, 18, 19 — Agustin Loureiro — [signature] — KAS

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 617C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/18/19	1233	:25	17	33	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 26904 (ft/msl)
Depth to Water (DTW) (from TOC): 1222 (ft)
Groundwater Elevation (site datum, from TOC): 25682 (ft/msl)
Total Well Depth (from TOC): 20010 (ft)
Stick Up (from ground elevation): 364 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1	1st	1st					
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.54	240	70	45	09	-141.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: calm
Outlook: cloudy
Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Agustin Loureiro		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Closloads

Site No.:

Sample Point: W9-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/18/19	1345	03	01	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below:

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2603.0 (ft/msl)

Depth to Water (DTW) (from TOC): 27.0 (ft)

Groundwater Elevation (site datum, from TOC): 2576.0 (ft/msl)

Total Well Depth (from TOC): 150.0 (ft)

Stick Up (from ground elevation): 3.00 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st			1						
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/Site requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.13	223	5.8	1.4	8.6	-78.1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal **Odor:** none **Color:** clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** calm **Outlook:** cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Agustin Iglesias		CAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W9-2E
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/18/19	1308	03	61	02	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below:

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: ✓
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: ✓
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 26102 (ft/msl)
Depth to Water (DTW) (from TOC): 405 (ft)
Groundwater Elevation (site datum, from TOC): 25697 (ft/msl)
Total Well Depth (from TOC): 1690 (ft)
Stick Up (from ground elevation): 320 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.26	250	6.4	0.6	6.5	-93	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: calm
Outlook: cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Agustin Loureiro		LCAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: DUP-03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: *For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: *Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data; unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:		1st	1st					
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or state Permit requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
1 1 1 8 1 9	7 5 4	2 4 0	7 0	4 5	0 9	-1 4 1 7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: normal

Odor: none

Color: Clear

Other:

Weather Conditions (required daily, or as conditions change):

Direction/Speed: calm

Outlook: Cloudy

Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
1/18/19	Agustin Lopez		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 626B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
111919	1338	:30	.01	.60	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
25698 (ft/msl)	1253 (ft)	24445 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1800 (ft)	309 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
111919	598	60	99	00	35	-1065	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/19/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 628A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~) L	ACTUAL VOL PURGED (~~Gallons~~) L	WELL VOLs PURGED
11/19/19	1132	:09	0.1	04	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2421.9 (ft/msl)

Depth to Water (DTW) (from TOC): 2.47 (ft)

Groundwater Elevation (site datum, from TOC): 239.72 (ft/msl)

Total Well Depth (from TOC): 51.50 (ft)

Stick Up (from ground elevation): 3.31 (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/19/19	7.46	536	14.0	10.6	5.4	+122	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/19/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: TRANS (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/19/19	1245 KA	15			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A

Sampling Device: A

A-Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st									
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/19/19	7.52	146	9.5	0.0	3.7	-142.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: Cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/19/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: W11-6E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~)	ACTUAL VOL PURGED (~~Gallons~~)	WELL VOLs PURGED
11/19/19	1207	:01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
24513 (ft/msl)	1602 (ft)	22911 (ft/msl)

Total Well Depth (from TOC): 27800 (ft) — Stick Up (from ground elevation): 083 (ft) — Casing ID: 2 (in) — Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/19/19	660	1340	133	00	33	-150 1	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal — Odor: None — Color: clear — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm — Outlook: cloudy — Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/19/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: W12 + 4B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/20/19	1336	135	02	70	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 25176 (ft/msl)
Depth to Water (DTW) (from TOC): 1733 (ft)
Groundwater Elevation (site datum, from TOC): 23443 (ft/msl)
Total Well Depth (from TOC): 3900 (ft)
Stick Up (from ground elevation): 350 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or your Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/20/19	8.15	158	11.4	00	04	+125.2	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: calm
Outlook: cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/19	Katrina Aman	Katrina Aman	KAS
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.: ____ Sample Point: W12-3E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/20/19	1250	:02	.01	.01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Purging Device: B — Sampling Device: B — X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: / — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 2460.0 (ft/msl) — Depth to Water (DTW) (from TOC): 5.28 (ft) — Groundwater Elevation (site datum, from TOC): 2407.2 (ft/msl)

Total Well Depth (from TOC): 100.0 (ft) — Stick Up (from ground elevation): 2.70 (ft) — Casing ID: 2 (in) — Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
11/20/19	7.12	358	6.4	0.2	9.7	511	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: Normal — Odor: None — Color: Clear — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm — Outlook: Cloudy — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads

Site No.:

Sample Point: W12-1E (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
11/25/19	1218	01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: Y or (X) 0.45 µ or ____ µ (circle or fill in)

Purging Device: B — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: B

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other:

Sample Tube Type: / — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
26184	746	25438

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
1100	255	2	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 3%	~	~	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/25/19	6.86	335	10.4	6.11	1.26	-69.6	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: NORMAL Odor: NONE Color: CLOUDY Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: W 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

LOW VOLUME COLLECTED FOR SAMPLES, NOT ALL BOTTLES WERE FILLED COMPLETELY. ALSO INCLUDED A BOTTLE FOR 'DISSOLVED METALS' BUT IT WASN'T PRESERVED.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

11/25/19 NICK ADAMS KAS

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 104 08 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 10 19	1353	:35	01 L	63 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2531.1 (ft/msl)
Depth to Water (DTW) (from TOC): 10.70 (ft)
Groundwater Elevation (site datum, from TOC): 2423.1 (ft/msl)
Total Well Depth (from TOC): 19.00 (ft)
Stick Up (from ground elevation): 3.35 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for 3 consec. readings or state Permit/Site requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12 10 19	6.20	150	9.3	2.0	10.8	-114.9	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: 10 SW
Outlook: Cloudy
Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Loureiro		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 104B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19	11:59	:40		40 C	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 2546.8 (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): 1500 (ft)
Stick Up (from ground elevation): .248 (ft)
Casing ID: 2 (in)
Casing Material: pvc

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested ranges for readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	5.83	456	9.3	.09	4.5	-89.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: none
Color: clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: 10 SW
Outlook: cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (If more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Lorenzo		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 618AR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrsmin)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19	1053	02	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Purging Device: B
Sampling Device: B
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: /
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: /
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
26721 (ft/msl)	1007 (ft)	25714 (ft/msl)	1550 (ft)	291 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	418	637	8.0	66	1.00	718	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal **Odor:** None **Color:** Clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 10 SW **Outlook:** Cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: 618CR (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons) L	ACTUAL VOL PURGED (Gallons) L	WELL VOLs PURGED
12/10/19	1110	:35	05	140	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: B
Sampling Device: B
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)	Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
2672	14.34	2528	63.00	2.92	2	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 survey readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	8.45	1602	9.3	0.0	1.2	-63.8	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: 10 SW
Outlook: Cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads

Site No.:

Sample Point: 624B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19	1254	2:5	02	113	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: B

Sampling Device: B

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
24954 (ft/msl)	722 (ft)	24232 (ft/msl)	3200 (ft)	327 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st								
2nd								
3rd								
4th								
Suggested range for readings or note Permit/Site requirements		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	637	687	96	36	04	-167	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal **Odor:** none **Color:** clear **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 10 SW **Outlook:** cloudy **Precipitation:** Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Lavero		KAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Cross roads

Site No.:

Sample Point: DUP-04 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19	1029	:35	01	126	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell [illegible] changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Peristl Pump, F-Dipper/Bottle, X-Other:

Sampling Device:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	7.21	153	9.0	0.01	1.3	-19.50	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: normal

Odor: none

Color: clear

Other:

Weather Conditions (required daily, or as conditions change):

Direction/Speed: 10 SW

Outlook: cloudy

Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Lugo		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads

Site No.: ____ Sample Point: W11-18 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19	1029	35	01 L	126 L	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B — Sampling Device: B — X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

Sample Tube Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
2725.4 (ft/msl)	20.49 (ft)	252.05 (ft/msl)	37.00 (ft)	2.84 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
12/10/19	7.21	153	9.0	01	1.3	-19.5	____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: normal — **Odor:** none — **Color:** clear — **Other:** ____

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 10 SW — **Outlook:** Cloudy — **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Lorenzo	[signature]	KAS
____/____/____			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W12-5E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (~~Gallons~~ L)	ACTUAL VOL PURGED (~~Gallons~~ L)	WELL VOLs PURGED
12/10/19	1305	:30	01	120	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: B
Sampling Device: B
A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle
X-Other:

Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other ____

Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC): 2611.11 (ft/msl)
Depth to Water (DTW) (from TOC): 10.37 (ft)
Groundwater Elevation (site datum, from TOC): 2507.74 (ft/msl)
Total Well Depth (from TOC): 17.00 (ft)
Stick Up (from ground elevation): 2.00 (ft)
Casing ID: 2 (in)
Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	7.13	353	9.6	00	2.2	554	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 SW Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: W-12-2E (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/19/19	1105	01	01	01	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vol Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N
Purging Device: B
Sampling Device: B
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:
Filter Device: Y or N .45 or ____ µ (circle or fill in)
Filter Type: A-Inline Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)
Depth to Water (DTW) (from TOC): 723 (ft)
Groundwater Elevation (site datum, from TOC): ____ (ft/msl)
Total Well Depth (from TOC): ____ (ft)
Stick Up (from ground elevation): ____ (ft)
Casing ID: ____ (in)
Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or your Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/19/19	5.6	2	3.7	03	10.9	-560	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: Clear
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: Calm
Outlook: Sunny
Precipitation: (Y) or N
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (If more than one sampler, all should sign):

Date	Name	Signature	Company
12/19/19	Agustin Lovero		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162327
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162327
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/12/19 01:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162382
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162382
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/12/19 01:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162477
List Number: 1
Creator: Manhardt, Kara M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162477
List Number: 2
Creator: Mooken, Darmal

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/19/19 12:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162577
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162577
List Number: 2
Creator: Mooken, Darmal

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/19/19 12:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162641
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162641
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/21/19 10:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162730
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162730
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/16/19 12:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162893
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162893
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/21/19 10:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162953
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 162953
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/21/19 10:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163033
List Number: 1
Creator: Hulbert, Michael J

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163033
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/22/19 01:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163285
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163285
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/27/19 01:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163965
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 163965
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 12/19/19 11:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 164496
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162327-1

Login Number: 164496
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 01/08/20 01:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-162881-1
Client Project/Site: Crossroads ME: S/A Surface Water
Sampling Event: Semi-Annual Surface Water (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
12/18/2019 9:49:31 AM
Katelyn Ferguson, Project Management Assistant I
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Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Qualifiers

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
*	QC Results not within control limits
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-162881-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-162881-1

Comments
No additional comments.

Receipt
The samples were received on 11/19/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.1º C, 3.4º C and 3.7º C.

Metals
Method 6010C: The method blank for preparation batch 480-505774 and analytical batch 480-506557 contained Total Iron above the reporting limit (RL). Associated sample(s) SW-101 (480-162881-2), SW-9 (480-162881-8), SW-A (480-162881-9) and SW-C (480-162881-11) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010C: The Total Arsenic, Calcium, Iron, Magnesium, Manganese, and Potassium results reported for the following sample do not concur with results previously reported for this site: SW-9 (480-162881-8). Reanalysis was performed, and the results confirmed.

Method 6020A: The Total Lead results reported for the following sample do not concur with results previously reported for this site: SW-9 (480-162881-8). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 350.1: The results reported for the following samples do not concur with results previously reported for this site: SW-201 (480-162881-4) and SW-204 (480-162881-6). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: DUP-SW-01 — Lab Sample ID: 480-162881-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	8400		150		ug/L	1		6010C	Total/NA
Iron	300		30		ug/L	1		6010C	Total/NA
Magnesium	1500		240		ug/L	1		6010C	Total/NA
Manganese	27		10		ug/L	1		6010C	Total/NA
Potassium	660		200		ug/L	1		6010C	Total/NA
Sodium	12000		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	29		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	20		10		mg/L	1		410.4	Total/NA
Chloride	22		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-4.4				%	1		SM 1030E	Total/NA
Calculated TDS	62				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.77				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.29				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	48		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.3		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	3.8				Degrees C	1		Field Sampling	Total/NA
Field pH	6.68				SU	1		Field Sampling	Total/NA
Specific Conductance	165				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	183.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	14.8				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-101 — Lab Sample ID: 480-162881-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	4000		150		ug/L	1		6010C	Total/NA
Iron	1300	BL	30		ug/L	1		6010C	Total/NA
Magnesium	930		240		ug/L	1		6010C	Total/NA
Manganese	170		10		ug/L	1		6010C	Total/NA
Potassium	600		200		ug/L	1		6010C	Total/NA
Sodium	7000		400		ug/L	1		6010C	Total/NA
Lead	0.53		0.40		ug/L	1		6020A	Total/NA
Ammonia as N	0.090		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	39		10		mg/L	1		410.4	Total/NA
Chloride	15		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	23				%	1		SM 1030E	Total/NA
Calculated TDS	29				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.56				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	42		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	15		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	24.9				NTU	1		Field Sampling	Total/NA
Temperature	1.5				Degrees C	1		Field Sampling	Total/NA
Field pH	6.67				SU	1		Field Sampling	Total/NA
Specific Conductance	75				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-44.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	11.1				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-102 — Lab Sample ID: 480-162881-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	8400		150		ug/L	1		6010C	Total/NA
Iron	270		30		ug/L	1		6010C	Total/NA
Magnesium	1500		240		ug/L	1		6010C	Total/NA
Manganese	27		10		ug/L	1		6010C	Total/NA
Potassium	660		200		ug/L	1		6010C	Total/NA
Sodium	12000		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	33		10		mg/L	1		310.2	Total/NA
Chemical Oxygen Demand	21		10		mg/L	1		410.4	Total/NA
Chloride	22		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-7.7				%	1		SM 1030E	Total/NA
Calculated TDS	65				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.42				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	69		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	60		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.4		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	3.8				Degrees C	1		Field Sampling	Total/NA
Field pH	6.68				SU	1		Field Sampling	Total/NA
Specific Conductance	165				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	183.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	14.8				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-201 — Lab Sample ID: 480-162881-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	12000		150		ug/L	1		6010C	Total/NA
Iron	530		30		ug/L	1		6010C	Total/NA
Magnesium	2300		240		ug/L	1		6010C	Total/NA
Manganese	76		10		ug/L	1		6010C	Total/NA
Potassium	1200		200		ug/L	1		6010C	Total/NA
Sodium	6200		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	37		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.036		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	27		10		mg/L	1		410.4	Total/NA
Chloride	11		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	3.2				%	1		SM 1030E	Total/NA
Calculated TDS	56				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.94				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.45				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	52		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	11		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.1				NTU	1		Field Sampling	Total/NA
Temperature	0.8				Degrees C	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Specific Conductance	116				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-11.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	13.5				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-203 — Lab Sample ID: 480-162881-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	23000		150		ug/L	1		6010C	Total/NA
Iron	930		30		ug/L	1		6010C	Total/NA
Magnesium	4600		240		ug/L	1		6010C	Total/NA
Manganese	220		10		ug/L	1		6010C	Total/NA
Potassium	2400		200		ug/L	1		6010C	Total/NA
Sodium	4800		400		ug/L	1		6010C	Total/NA
Lead	0.47		0.40		ug/L	1		6020A	Total/NA
Alkalinity, Total	82		10		mg/L	1		310.2	Total/NA
Nitrate	0.097		0.050		mg/L as N	1		353.2	Total/NA
Chloride	3.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	37				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.49				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.35				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	64		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	10		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	5.8				NTU	1		Field Sampling	Total/NA
Temperature	4.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Specific Conductance	183				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-69.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	12.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-204 — Lab Sample ID: 480-162881-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	8100		150		ug/L	1		6010C	Total/NA
Iron	940		30		ug/L	1		6010C	Total/NA
Magnesium	2000		240		ug/L	1		6010C	Total/NA
Manganese	130		10		ug/L	1		6010C	Total/NA
Potassium	780		200		ug/L	1		6010C	Total/NA
Sodium	6800		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	19		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.067		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	31		10		mg/L	1		410.4	Total/NA
Chloride	14		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	9.6				%	1		SM 1030E	Total/NA
Calculated TDS	44				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.88				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.37				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	39		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	12		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Temperature	1.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.71				SU	1		Field Sampling	Total/NA
Specific Conductance	106				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-57.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	13.5				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-801

Lab Sample ID: 480-162881-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	29000		150		ug/L	1		6010C	Total/NA
Iron	400		30		ug/L	1		6010C	Total/NA
Magnesium	6600		240		ug/L	1		6010C	Total/NA
Manganese	460		10		ug/L	1		6010C	Total/NA
Potassium	2700		200		ug/L	1		6010C	Total/NA
Sodium	5400		400		ug/L	1		6010C	Total/NA
Alkalinity, Total	120		50		mg/L	5		310.2	Total/NA
Nitrate	0.27		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	11		10		mg/L	1		410.4	Total/NA
Chloride	2.6		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	-3.3				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.61				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.32				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	73		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	22		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	1.8				NTU	1		Field Sampling	Total/NA
Temperature	4.0				Degrees C	1		Field Sampling	Total/NA
Field pH	6.89				SU	1		Field Sampling	Total/NA
Specific Conductance	227				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	226.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	13.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-9

Lab Sample ID: 480-162881-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	36		9.0		ug/L	1		6010C	Total/NA
Calcium	24000		150		ug/L	1		6010C	Total/NA
Iron	37000	BL	30		ug/L	1		6010C	Total/NA
Magnesium	10000		240		ug/L	1		6010C	Total/NA
Manganese	490		10		ug/L	1		6010C	Total/NA
Potassium	3800		200		ug/L	1		6010C	Total/NA
Sodium	11000		400		ug/L	1		6010C	Total/NA
Lead	19		0.40		ug/L	1		6020A	Total/NA
Alkalinity, Total	42		10		mg/L	1		310.2	Total/NA
Ammonia as N	0.11		0.020		mg/L as N	1		350.1	Total/NA
Chemical Oxygen Demand	66		10		mg/L	1		410.4	Total/NA
Chloride	3.7		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	66				%	1		SM 1030E	Total/NA
Calculated TDS	120				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.22				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.20				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	25		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	72		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	9.7		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	305.0				NTU	1		Field Sampling	Total/NA
Temperature	2.4				Degrees C	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Specific Conductance	124				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-66.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-9 (Continued) — Lab Sample ID: 480-162881-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	4.5				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-A — Lab Sample ID: 480-162881-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	28000		150		ug/L	1		6010C	Total/NA
Iron	15000	BL	30		ug/L	1		6010C	Total/NA
Magnesium	7300		240		ug/L	1		6010C	Total/NA
Manganese	8900		10		ug/L	1		6010C	Total/NA
Potassium	2500		200		ug/L	1		6010C	Total/NA
Sodium	3000		400		ug/L	1		6010C	Total/NA
Lead	1.7		0.40		ug/L	1		6020A	Total/NA
Alkalinity, Total	110		20		mg/L	2		310.2	Total/NA
Ammonia as N	0.096		0.020		mg/L as N	1		350.1	Total/NA
Nitrate	0.13		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	27		10		mg/L	1		410.4	Total/NA
Chloride	3.0		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	18				%	1		SM 1030E	Total/NA
Calculated TDS	130				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.39				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.28				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	52		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	55		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.2		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	18.0				NTU	1		Field Sampling	Total/NA
Temperature	2.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Specific Conductance	185				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	26.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	13.9				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-B — Lab Sample ID: 480-162881-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	12000		150		ug/L	1		6010C	Total/NA
Iron	850		30		ug/L	1		6010C	Total/NA
Magnesium	2600		240		ug/L	1		6010C	Total/NA
Manganese	110		10		ug/L	1		6010C	Total/NA
Potassium	1200		200		ug/L	1		6010C	Total/NA
Sodium	5700		400		ug/L	1		6010C	Total/NA
Lead	0.65		0.40		ug/L	1		6020A	Total/NA
Alkalinity, Total	40		10		mg/L	1		310.2	Total/NA
Nitrate	0.060		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	22		10		mg/L	1		410.4	Total/NA
Chloride	9.8		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	2.8				%	1		SM 1030E	Total/NA
Calculated TDS	56				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.1				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.59				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	64		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.2		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-B (Continued)

Lab Sample ID: 480-162881-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Turbidity	8.9				NTU	1		Field Sampling	Total/NA
Temperature	2.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.90				SU	1		Field Sampling	Total/NA
Specific Conductance	108				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	29.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	13.3				mg/L	1		Field Sampling	Total/NA

Client Sample ID: SW-C

Lab Sample ID: 480-162881-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Calcium	2100		150		ug/L	1		6010C	Total/NA
Iron	1400	BL	30		ug/L	1		6010C	Total/NA
Magnesium	1000		240		ug/L	1		6010C	Total/NA
Manganese	65		10		ug/L	1		6010C	Total/NA
Potassium	540		200		ug/L	1		6010C	Total/NA
Sodium	4900		400		ug/L	1		6010C	Total/NA
Lead	1.6		0.40		ug/L	1		6020A	Total/NA
Chemical Oxygen Demand	24		10		mg/L	1		410.4	Total/NA
Chloride	10		0.50		mg/L	1		9251	Total/NA
Anion/Cation Balance	27				%	1		SM 1030E	Total/NA
Calculated TDS	20				mg/L	1		SM 1030E	Total/NA
TDS Ratio	3.4				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	1.4				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	69		5.0		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	33		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	9.1		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	11.3				NTU	1		Field Sampling	Total/NA
Temperature	1.7				Degrees C	1		Field Sampling	Total/NA
Field pH	6.37				SU	1		Field Sampling	Total/NA
Specific Conductance	49				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-9.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.4				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-SW-01
Lab Sample ID: 480-162881-1

Date Collected: 11/18/19 11:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:06	1
Calcium	**8400**		150		ug/L		11/21/19 10:12	11/23/19 14:06	1
Iron	**300**		30		ug/L		12/05/19 10:58	12/05/19 16:48	1
Magnesium	**1500**		240		ug/L		11/21/19 10:12	11/23/19 14:06	1
Manganese	**27**		10		ug/L		11/21/19 10:12	11/23/19 14:06	1
Potassium	**660**		200		ug/L		11/21/19 10:12	11/23/19 14:06	1
Sodium	**12000**		400		ug/L		11/21/19 10:12	11/23/19 14:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 20:37	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-4.4**				%			12/06/19 10:17	1
Calculated TDS	**62**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.77**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.29**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**29**		10		mg/L			12/01/19 11:54	1
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:06	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:14	1
Chemical Oxygen Demand	**20**		10		mg/L			12/03/19 14:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 02:36	1
Chloride	**22**		0.50		mg/L			11/30/19 02:39	1
Total Dissolved Solids	**48**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**7.3**		1.0		mg/L			11/20/19 21:25	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.2**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/18/19 11:35	1
Temperature	**3.8**				Degrees C			11/18/19 11:35	1
Field pH	**6.68**				SU			11/18/19 11:35	1
Specific Conductance	**165**				umhos/cm			11/18/19 11:35	1
Field EH/ORP	**183.0**				millivolts			11/18/19 11:35	1
Oxygen, Dissolved	**14.8**				mg/L			11/18/19 11:35	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-101

Date Collected: 11/18/19 15:05
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-2

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:10	1
Calcium	**4000**		150		ug/L		11/21/19 10:12	11/23/19 14:10	1
Iron	**1300**	**BL**	30		ug/L		11/21/19 10:12	11/23/19 14:10	1
Magnesium	**930**		240		ug/L		11/21/19 10:12	11/23/19 14:10	1
Manganese	**170**		10		ug/L		11/21/19 10:12	11/23/19 14:10	1
Potassium	**600**		200		ug/L		11/21/19 10:12	11/23/19 14:10	1
Sodium	**7000**		400		ug/L		11/21/19 10:12	11/23/19 14:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.53**		0.40		ug/L		11/21/19 09:58	11/26/19 20:49	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**23**				%			12/06/19 10:17	1
Calculated TDS	**29**				mg/L			12/06/19 10:17	1
TDS Ratio	**1.4**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.56**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/01/19 09:25	1
Ammonia as N	**0.090**		0.020		mg/L as N			11/20/19 13:53	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:17	1
Chemical Oxygen Demand	**39**		10		mg/L			12/03/19 14:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 02:58	1
Chloride	**15**		0.50		mg/L			11/30/19 03:01	1
Total Dissolved Solids	**42**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**15**		1.0		mg/L			11/20/19 21:40	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**24.9**				NTU			11/18/19 15:05	1
Temperature	**1.5**				Degrees C			11/18/19 15:05	1
Field pH	**6.67**				SU			11/18/19 15:05	1
Specific Conductance	**75**				umhos/cm			11/18/19 15:05	1
Field EH/ORP	**-44.8**				millivolts			11/18/19 15:05	1
Oxygen, Dissolved	**11.1**				mg/L			11/18/19 15:05	1

Client Sample ID: SW-102
Date Collected: 11/18/19 11:35
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-3
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:14	1
Calcium	**8400**		150		ug/L		11/21/19 10:12	11/23/19 14:14	1
Iron	**270**		30		ug/L		12/05/19 10:58	12/05/19 16:52	1
Magnesium	**1500**		240		ug/L		11/21/19 10:12	11/23/19 14:14	1
Manganese	**27**		10		ug/L		11/21/19 10:12	11/23/19 14:14	1
Potassium	**660**		200		ug/L		11/21/19 10:12	11/23/19 14:14	1
Sodium	**12000**		400		ug/L		11/21/19 10:12	11/23/19 14:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 20:58	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-7.7**				%			12/06/19 10:17	1
Calculated TDS	**65**				mg/L			12/06/19 10:17	1
TDS Ratio	**1.1**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.42**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**33**		10		mg/L			12/01/19 09:25	1
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:09	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:19	1
Chemical Oxygen Demand	**21**		10		mg/L			12/03/19 14:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:00	1
Chloride	**22**		0.50		mg/L			11/30/19 03:03	1
Total Dissolved Solids	**69**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**7.4**		1.0		mg/L			11/20/19 21:56	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**60**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/18/19 11:35	1
Temperature	**3.8**				Degrees C			11/18/19 11:35	1
Field pH	**6.68**				SU			11/18/19 11:35	1
Specific Conductance	**165**				umhos/cm			11/18/19 11:35	1
Field EH/ORP	**183.0**				millivolts			11/18/19 11:35	1
Oxygen, Dissolved	**14.8**				mg/L			11/18/19 11:35	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-201

Date Collected: 11/18/19 13:45
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-4

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:17	1
Calcium	**12000**		150		ug/L		11/21/19 10:12	11/23/19 14:17	1
Iron	**530**		30		ug/L		12/05/19 10:58	12/05/19 17:10	1
Magnesium	**2300**		240		ug/L		11/21/19 10:12	11/23/19 14:17	1
Manganese	**76**		10		ug/L		11/21/19 10:12	11/23/19 14:17	1
Potassium	**1200**		200		ug/L		11/21/19 10:12	11/23/19 14:17	1
Sodium	**6200**		400		ug/L		11/21/19 10:12	11/23/19 14:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 21:00	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**3.2**				%			12/06/19 10:17	1
Calculated TDS	**56**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.94**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.45**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**37**		10		mg/L			12/02/19 19:35	1
Ammonia as N	**0.036**		0.020		mg/L as N			11/20/19 13:10	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:20	1
Chemical Oxygen Demand	**27**		10		mg/L			12/03/19 14:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:15	1
Chloride	**11**		0.50		mg/L			11/30/19 03:17	1
Total Dissolved Solids	**52**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**11**		1.0		mg/L			11/20/19 22:11	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**6.0**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.1**				NTU			11/18/19 13:45	1
Temperature	**0.8**				Degrees C			11/18/19 13:45	1
Field pH	**7.07**				SU			11/18/19 13:45	1
Specific Conductance	**116**				umhos/cm			11/18/19 13:45	1
Field EH/ORP	**-11.9**				millivolts			11/18/19 13:45	1
Oxygen, Dissolved	**13.5**				mg/L			11/18/19 13:45	1

Client Sample ID: SW-203
Date Collected: 11/18/19 14:35
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-5
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:21	1
Calcium	**23000**		150		ug/L		11/21/19 10:12	11/23/19 14:21	1
Iron	**930**		30		ug/L		12/05/19 10:58	12/05/19 17:14	1
Magnesium	**4600**		240		ug/L		11/21/19 10:12	11/23/19 14:21	1
Manganese	**220**		10		ug/L		11/21/19 10:12	11/23/19 14:21	1
Potassium	**2400**		200		ug/L		11/21/19 10:12	11/23/19 14:21	1
Sodium	**4800**		400		ug/L		11/21/19 10:12	11/23/19 14:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.47**		0.40		ug/L		11/21/19 09:58	11/26/19 21:03	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**37**				%			12/06/19 10:17	1
Calculated TDS	**130**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.49**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.35**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**82**		10		mg/L			12/02/19 19:35	1
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:11	1
Nitrate	**0.097**		0.050		mg/L as N			11/19/19 21:29	1
Chemical Oxygen Demand	ND	U	10		mg/L			12/03/19 14:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:15	1
Chloride	**3.0**		0.50		mg/L			12/01/19 08:47	1
Total Dissolved Solids	**64**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**2.1**		1.0		mg/L			11/20/19 23:28	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**10**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.8**				NTU			11/18/19 14:35	1
Temperature	**4.4**				Degrees C			11/18/19 14:35	1
Field pH	**7.15**				SU			11/18/19 14:35	1
Specific Conductance	**183**				umhos/cm			11/18/19 14:35	1
Field EH/ORP	**-69.2**				millivolts			11/18/19 14:35	1
Oxygen, Dissolved	**12.9**				mg/L			11/18/19 14:35	1

Client Sample ID: SW-204
Date Collected: 11/18/19 14:00
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-6
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:51	1
Calcium	**8100**		150		ug/L		11/21/19 10:12	11/23/19 14:51	1
Iron	**940**		30		ug/L		12/05/19 10:58	12/05/19 17:17	1
Magnesium	**2000**		240		ug/L		11/21/19 10:12	11/23/19 14:51	1
Manganese	**130**		10		ug/L		11/21/19 10:12	11/23/19 14:51	1
Potassium	**780**		200		ug/L		11/21/19 10:12	11/23/19 14:51	1
Sodium	**6800**		400		ug/L		11/21/19 10:12	11/23/19 14:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 21:05	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**9.6**				%			12/06/19 10:17	1
Calculated TDS	**44**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.88**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.37**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**19**		10		mg/L			12/02/19 20:14	1
Ammonia as N	**0.067**		0.020		mg/L as N			11/20/19 13:11	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:23	1
Chemical Oxygen Demand	**31**		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:17	1
Chloride	**14**		0.50		mg/L			11/30/19 03:21	1
Total Dissolved Solids	**39**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**12**		1.0		mg/L			11/21/19 00:14	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**4.8**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.8**				NTU			11/18/19 14:00	1
Temperature	**1.4**				Degrees C			11/18/19 14:00	1
Field pH	**7.71**				SU			11/18/19 14:00	1
Specific Conductance	**106**				umhos/cm			11/18/19 14:00	1
Field EH/ORP	**-57.7**				millivolts			11/18/19 14:00	1
Oxygen, Dissolved	**13.5**				mg/L			11/18/19 14:00	1

Client Sample ID: SW-801
Date Collected: 11/18/19 12:20
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-7
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 14:55	1
Calcium	**29000**		150		ug/L		11/21/19 10:12	11/23/19 14:55	1
Iron	**400**		30		ug/L		12/05/19 10:58	12/05/19 17:32	1
Magnesium	**6600**		240		ug/L		11/21/19 10:12	11/23/19 14:55	1
Manganese	**460**		10		ug/L		11/21/19 10:12	11/23/19 14:55	1
Potassium	**2700**		200		ug/L		11/21/19 10:12	11/23/19 14:55	1
Sodium	**5400**		400		ug/L		11/21/19 10:12	11/23/19 14:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 21:07	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-3.3**				%			12/06/19 10:17	1
Calculated TDS	**120**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.61**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.32**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**120**		50		mg/L			11/30/19 03:35	5
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:12	1
Nitrate	**0.27**		0.050		mg/L as N			11/19/19 21:30	1
Chemical Oxygen Demand	**11**		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:18	1
Chloride	**2.6**		0.50		mg/L			11/30/19 03:21	1
Total Dissolved Solids	**73**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**2.2**		1.0		mg/L			11/21/19 00:29	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**22**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**1.8**				NTU			11/18/19 12:20	1
Temperature	**4.0**				Degrees C			11/18/19 12:20	1
Field pH	**6.89**				SU			11/18/19 12:20	1
Specific Conductance	**227**				umhos/cm			11/18/19 12:20	1
Field EH/ORP	**226.7**				millivolts			11/18/19 12:20	1
Oxygen, Dissolved	**13.9**				mg/L			11/18/19 12:20	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-9

Date Collected: 11/18/19 14:45
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-8

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	36		9.0		ug/L		11/21/19 10:12	11/23/19 14:59	1
Calcium	24000		150		ug/L		11/21/19 10:12	11/23/19 14:59	1
Iron	37000	BL	30		ug/L		11/21/19 10:12	11/23/19 14:59	1
Magnesium	10000		240		ug/L		11/21/19 10:12	11/23/19 14:59	1
Manganese	490		10		ug/L		11/21/19 10:12	11/23/19 14:59	1
Potassium	3800		200		ug/L		11/21/19 10:12	11/23/19 14:59	1
Sodium	11000		400		ug/L		11/21/19 10:12	11/23/19 14:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		0.40		ug/L		11/21/19 09:58	11/26/19 21:09	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	66				%			12/06/19 10:17	1
Calculated TDS	120				mg/L			12/06/19 10:17	1
TDS Ratio	0.22				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	0.20				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	42		10		mg/L			12/02/19 20:14	1
Ammonia as N	0.11		0.020		mg/L as N			11/20/19 13:15	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:25	1
Chemical Oxygen Demand	66		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:20	1
Chloride	3.7		0.50		mg/L			11/30/19 03:22	1
Total Dissolved Solids	25		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	9.7		1.0		mg/L			11/21/19 00:44	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	72		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	305.0				NTU			11/18/19 14:45	1
Temperature	2.4				Degrees C			11/18/19 14:45	1
Field pH	6.97				SU			11/18/19 14:45	1
Specific Conductance	124				umhos/cm			11/18/19 14:45	1
Field EH/ORP	-66.7				millivolts			11/18/19 14:45	1
Oxygen, Dissolved	4.5				mg/L			11/18/19 14:45	1

Client Sample ID: SW-A
Date Collected: 11/18/19 15:50
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-9
Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 15:03	1
Calcium	**28000**		150		ug/L		11/21/19 10:12	11/23/19 15:03	1
Iron	**15000**	**BL**	30		ug/L		11/21/19 10:12	11/23/19 15:03	1
Magnesium	**7300**		240		ug/L		11/21/19 10:12	11/23/19 15:03	1
Manganese	**8900**		10		ug/L		11/21/19 10:12	11/23/19 15:03	1
Potassium	**2500**		200		ug/L		11/21/19 10:12	11/23/19 15:03	1
Sodium	**3000**		400		ug/L		11/21/19 10:12	11/23/19 15:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.7**		0.40		ug/L		11/21/19 09:58	11/26/19 21:12	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**18**				%			12/06/19 10:17	1
Calculated TDS	**130**				mg/L			12/06/19 10:17	1
TDS Ratio	**0.39**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.28**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**110**		20		mg/L			11/30/19 03:34	2
Ammonia as N	**0.096**		0.020		mg/L as N			11/20/19 13:17	1
Nitrate	**0.13**		0.050		mg/L as N			11/19/19 21:31	1
Chemical Oxygen Demand	**27**		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:27	1
Chloride	**3.0**		0.50		mg/L			12/01/19 08:47	1
Total Dissolved Solids	**52**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**6.2**		1.0		mg/L			11/21/19 01:00	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**55**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**18.0**				NTU			11/18/19 15:50	1
Temperature	**2.1**				Degrees C			11/18/19 15:50	1
Field pH	**7.01**				SU			11/18/19 15:50	1
Specific Conductance	**185**				umhos/cm			11/18/19 15:50	1
Field EH/ORP	**26.8**				millivolts			11/18/19 15:50	1
Oxygen, Dissolved	**13.9**				mg/L			11/18/19 15:50	1

Client Sample ID: SW-B
Lab Sample ID: 480-162881-10

Date Collected: 11/18/19 15:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 15:07	1
Calcium	**12000**		150		ug/L		11/21/19 10:12	11/23/19 15:07	1
Iron	**850**		30		ug/L		12/05/19 10:58	12/05/19 17:36	1
Magnesium	**2600**		240		ug/L		11/21/19 10:12	11/23/19 15:07	1
Manganese	**110**		10		ug/L		11/21/19 10:12	11/23/19 15:07	1
Potassium	**1200**		200		ug/L		11/21/19 10:12	11/23/19 15:07	1
Sodium	**5700**		400		ug/L		11/21/19 10:12	11/23/19 15:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.65**		0.40		ug/L		11/21/19 09:58	11/26/19 21:14	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**2.8**				%			12/06/19 10:17	1
Calculated TDS	**56**				mg/L			12/06/19 10:17	1
TDS Ratio	**1.1**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**0.59**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**40**		10		mg/L			11/30/19 03:35	1
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:18	1
Nitrate	**0.060**		0.050		mg/L as N			11/19/19 21:32	1
Chemical Oxygen Demand	**22**		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:36	1
Chloride	**9.8**		0.50		mg/L			12/01/19 08:45	1
Total Dissolved Solids	**64**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**7.2**		1.0		mg/L			11/21/19 01:15	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**6.0**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**8.9**				NTU			11/18/19 15:35	1
Temperature	**2.7**				Degrees C			11/18/19 15:35	1
Field pH	**6.90**				SU			11/18/19 15:35	1
Specific Conductance	**108**				umhos/cm			11/18/19 15:35	1
Field EH/ORP	**29.8**				millivolts			11/18/19 15:35	1
Oxygen, Dissolved	**13.3**				mg/L			11/18/19 15:35	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Client Sample ID: SW-C

Date Collected: 11/18/19 15:20
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-11

Matrix: Surface Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 15:10	1
Calcium	**2100**		150		ug/L		11/21/19 10:12	11/23/19 15:10	1
Iron	**1400**	**BL**	30		ug/L		11/21/19 10:12	11/23/19 15:10	1
Magnesium	**1000**		240		ug/L		11/21/19 10:12	11/23/19 15:10	1
Manganese	**65**		10		ug/L		11/21/19 10:12	11/23/19 15:10	1
Potassium	**540**		200		ug/L		11/21/19 10:12	11/23/19 15:10	1
Sodium	**4900**		400		ug/L		11/21/19 10:12	11/23/19 15:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.6**		0.40		ug/L		11/21/19 09:58	11/26/19 21:16	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**27**				%			12/06/19 10:17	1
Calculated TDS	**20**				mg/L			12/06/19 10:17	1
TDS Ratio	**3.4**				NONE			12/06/19 10:17	1
TDS to Conductivity Ratio	**1.4**				NONE			12/06/19 10:17	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/30/19 03:41	1
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:19	1
Nitrate	ND	U	0.050		mg/L as N			11/19/19 19:33	1
Chemical Oxygen Demand	**24**		10		mg/L			12/03/19 13:35	1
Sulfate	ND	U	5.0		mg/L			11/30/19 03:37	1
Chloride	**10**		0.50		mg/L			12/03/19 01:47	1
Total Dissolved Solids	**69**		5.0		mg/L			11/22/19 13:14	1
Total Organic Carbon	**9.1**		1.0		mg/L			11/21/19 02:01	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**33**		4.0		mg/L			11/22/19 13:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**11.3**				NTU			11/18/19 15:20	1
Temperature	**1.7**				Degrees C			11/18/19 15:20	1
Field pH	**6.37**				SU			11/18/19 15:20	1
Specific Conductance	**49**				umhos/cm			11/18/19 15:20	1
Field EH/ORP	**-9.3**				millivolts			11/18/19 15:20	1
Oxygen, Dissolved	**2.4**				mg/L			11/18/19 15:20	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-505774/1-A
Matrix: Water
Analysis Batch: 506557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505774

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	9.0		ug/L		11/21/19 10:12	11/23/19 13:58	1
Calcium	ND	U	150		ug/L		11/21/19 10:12	11/23/19 13:58	1
Iron	101		30		ug/L		11/21/19 10:12	11/23/19 13:58	1
Magnesium	ND	U	240		ug/L		11/21/19 10:12	11/23/19 13:58	1
Manganese	ND	U	10		ug/L		11/21/19 10:12	11/23/19 13:58	1
Potassium	ND	U	200		ug/L		11/21/19 10:12	11/23/19 13:58	1
Sodium	ND	U	400		ug/L		11/21/19 10:12	11/23/19 13:58	1

Lab Sample ID: LCS 480-505774/2-A
Matrix: Water
Analysis Batch: 506557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			200	202		ug/L		101	80 - 120		
Calcium			10000	9510		ug/L		95	80 - 120		
Iron			10000	10100		ug/L		101	80 - 120		
Magnesium			10000	9600		ug/L		96	80 - 120		
Manganese			200	200		ug/L		100	80 - 120		
Potassium			10000	9660		ug/L		97	80 - 120		
Sodium			10000	9460		ug/L		94	80 - 120		

Lab Sample ID: 480-162881-5 MS
Matrix: Surface Water
Analysis Batch: 506557

Client Sample ID: SW-203
Prep Type: Total/NA
Prep Batch: 505774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	U	200	210		ug/L		105	75 - 125
Calcium	23000		10000	31700		ug/L		87	75 - 125
Iron	620	BL	10000	10600		ug/L		100	75 - 125
Magnesium	4600		10000	13800		ug/L		92	75 - 125
Manganese	220		200	419		ug/L		97	75 - 125
Potassium	2400		10000	11800		ug/L		94	75 - 125
Sodium	4800		10000	14100		ug/L		92	75 - 125

Lab Sample ID: 480-162881-5 MSD
Matrix: Surface Water
Analysis Batch: 506557

Client Sample ID: SW-203
Prep Type: Total/NA
Prep Batch: 505774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	U	200	207		ug/L		104	75 - 125	1	20
Calcium	23000		10000	32200		ug/L		92	75 - 125	2	20
Iron	620	BL	10000	10700		ug/L		101	75 - 125	1	20
Magnesium	4600		10000	14000		ug/L		94	75 - 125	1	20
Manganese	220		200	422		ug/L		99	75 - 125	1	20
Potassium	2400		10000	12100		ug/L		97	75 - 125	2	20
Sodium	4800		10000	14300		ug/L		95	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-508278/1-A
Matrix: Water
Analysis Batch: 508436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508278

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	30		ug/L		12/05/19 10:58	12/05/19 16:30	1

Lab Sample ID: LCS 480-508278/2-A
Matrix: Water
Analysis Batch: 508436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508278

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10000	9890		ug/L		99	80 - 120		

Lab Sample ID: 480-162881-3 MS
Matrix: Surface Water
Analysis Batch: 508436

Client Sample ID: SW-102
Prep Type: Total/NA
Prep Batch: 508278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	270		10000	10100		ug/L		98	75 - 125		

Lab Sample ID: 480-162881-3 MSD
Matrix: Surface Water
Analysis Batch: 508436

Client Sample ID: SW-102
Prep Type: Total/NA
Prep Batch: 508278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	270		10000	10000		ug/L		98	75 - 125	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-505772/1-A
Matrix: Water
Analysis Batch: 506991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505772

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	U	0.40		ug/L		11/21/19 09:58	11/26/19 20:32	1

Lab Sample ID: LCS 480-505772/2-A
Matrix: Water
Analysis Batch: 506991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505772

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			20.0	18.5		ug/L		93	80 - 120		

Lab Sample ID: 480-162881-1 MS
Matrix: Surface Water
Analysis Batch: 506991

Client Sample ID: DUP-SW-01
Prep Type: Total/NA
Prep Batch: 505772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND	U	20.0	19.0		ug/L		95	75 - 125		

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 480-162881-1 MSD
Matrix: Surface Water
Analysis Batch: 506991

Client Sample ID: DUP-SW-01
Prep Type: Total/NA
Prep Batch: 505772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND	U	20.0	18.6		ug/L		93	75 - 125	2	20

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-507529/136
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			11/30/19 03:34	1

Lab Sample ID: MB 480-507529/150
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/01/19 09:19	1

Lab Sample ID: MB 480-507529/159
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/01/19 09:25	1

Lab Sample ID: MB 480-507529/167
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/01/19 11:53	1

Lab Sample ID: LCS 480-507529/134
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.8		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-507529/148
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	50.6		mg/L		101	90 - 110		

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-507529/157
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: LCS 480-507529/165
Matrix: Water
Analysis Batch: 507529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.7		mg/L		101	90 - 110

Lab Sample ID: MB 480-507740/12
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 19:24	1

Lab Sample ID: MB 480-507740/24
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 19:26	1

Lab Sample ID: MB 480-507740/49
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/02/19 20:14	1

Lab Sample ID: LCS 480-507740/13
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	46.3		mg/L		93	90 - 110

Lab Sample ID: LCS 480-507740/25
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCS 480-507740/50
Matrix: Water
Analysis Batch: 507740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.5		mg/L		103	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: 480-162881-4 MS
Matrix: Surface Water
Analysis Batch: 507740

Client Sample ID: SW-201
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	37		20.0	57.6		mg/L		106	60 - 140

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-505708/147
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:46	1

Lab Sample ID: MB 480-505708/27
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 12:03	1

Lab Sample ID: MB 480-505708/99
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.020		mg/L as N			11/20/19 13:05	1

Lab Sample ID: LCS 480-505708/100
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110

Lab Sample ID: LCS 480-505708/148
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.03		mg/L as N		103	90 - 110

Lab Sample ID: LCS 480-505708/28
Matrix: Water
Analysis Batch: 505708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N			1.00	1.02		mg/L as N		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-162881-1 MS
Matrix: Surface Water
Analysis Batch: 505708

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	ND	U	0.200	0.232	*	mg/L as N		116	90 - 110

Lab Sample ID: 480-162881-8 MS
Matrix: Surface Water
Analysis Batch: 505708

Client Sample ID: SW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.11		0.200	0.377	*	mg/L as N		136	90 - 110

Lab Sample ID: 480-162881-8 DU
Matrix: Surface Water
Analysis Batch: 505708

Client Sample ID: SW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	0.11		0.104		mg/L as N		2	20

Method: 410.4 - COD

Lab Sample ID: MB 480-507940/3
Matrix: Water
Analysis Batch: 507940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			12/03/19 13:35	1

Lab Sample ID: LCS 480-507940/4
Matrix: Water
Analysis Batch: 507940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.5		mg/L		98	90 - 110

Lab Sample ID: 480-162881-7 MS
Matrix: Surface Water
Analysis Batch: 507940

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	11		50.0	63.1		mg/L		105	75 - 125

Lab Sample ID: 480-162881-7 MSD
Matrix: Surface Water
Analysis Batch: 507940

Client Sample ID: SW-801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	11		50.0	61.8		mg/L		103	75 - 125	2	20

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-508019/76
Matrix: Water
Analysis Batch: 508019

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			12/03/19 14:35	1

Lab Sample ID: LCS 480-508019/77
Matrix: Water
Analysis Batch: 508019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	24.9		mg/L		100	90 - 110		

Lab Sample ID: 480-162881-5 MS
Matrix: Surface Water
Analysis Batch: 508019

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	U	50.0	58.3		mg/L		100	75 - 125		

Lab Sample ID: 480-162881-5 MSD
Matrix: Surface Water
Analysis Batch: 508019

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND	U	50.0	53.4		mg/L		90	75 - 125	9	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-507530/117
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/30/19 01:51	1

Lab Sample ID: MB 480-507530/145
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			11/30/19 02:37	1

Lab Sample ID: LCS 480-507530/118
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.1		mg/L		104	90 - 110		

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 480-507530/146
Matrix: Water
Analysis Batch: 507530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.8		mg/L		106	90 - 110		

Lab Sample ID: 480-162881-1 MS
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	17.2		mg/L		86	60 - 128		

Lab Sample ID: 480-162881-1 MSD
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	16.6		mg/L		83	60 - 128	4	20

Lab Sample ID: 480-162881-2 MS
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	ND	U *	mg/L		19	60 - 128		

Lab Sample ID: 480-162881-2 MSD
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	5.73	*	mg/L		29	60 - 128	40	20

Lab Sample ID: 480-162881-3 MS
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: SW-102
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND	U	20.0	18.9		mg/L		95	60 - 128		

Lab Sample ID: 480-162881-3 MSD
Matrix: Surface Water
Analysis Batch: 507530

Client Sample ID: SW-102
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND	U	20.0	17.5		mg/L		88	60 - 128	8	20

Method: 9251 - Chloride

Lab Sample ID: MB 480-507531/142
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			11/30/19 02:38	1

Lab Sample ID: MB 480-507531/149
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			11/30/19 03:01	1

Lab Sample ID: MB 480-507531/174
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			11/30/19 03:54	1

Lab Sample ID: LCS 480-507531/141
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.8		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-507531/148
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.6		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-507531/173
Matrix: Water
Analysis Batch: 507531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.5		mg/L		106	90 - 110		

Lab Sample ID: 480-162881-1 MS
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22		20.0	41.7		mg/L		99	74 - 131		

Lab Sample ID: 480-162881-1 MSD
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: DUP-SW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22		20.0	41.3		mg/L		98	74 - 131	1	20

Method: 9251 - Chloride

Lab Sample ID: 480-162881-2 MS
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	15		20.0	35.2		mg/L		102	74 - 131		

Lab Sample ID: 480-162881-2 MSD
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15		20.0	35.4		mg/L		103	74 - 131	1	20

Lab Sample ID: 480-162881-3 MS
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: SW-102
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22		20.0	41.8		mg/L		100	74 - 131		

Lab Sample ID: 480-162881-3 MSD
Matrix: Surface Water
Analysis Batch: 507531

Client Sample ID: SW-102
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22		20.0	41.7		mg/L		100	74 - 131	0	20

Lab Sample ID: MB 480-507743/153
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 01:10	1

Lab Sample ID: MB 480-507743/188
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 01:46	1

Lab Sample ID: LCS 480-507743/152
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.7		mg/L		107	90 - 110		

Lab Sample ID: LCS 480-507743/187
Matrix: Water
Analysis Batch: 507743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.8		mg/L		107	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-506229/1
Matrix: Water
Analysis Batch: 506229

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/22/19 13:14	1

Lab Sample ID: LCS 480-506229/2
Matrix: Water
Analysis Batch: 506229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	464		mg/L		92	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-506234/1
Matrix: Water
Analysis Batch: 506234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/22/19 13:21	1

Lab Sample ID: LCS 480-506234/2
Matrix: Water
Analysis Batch: 506234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			268	261		mg/L		97	88 - 110		

Method: SM 5310C - TOC

Lab Sample ID: MB 480-505923/27
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/20/19 22:56	1

Lab Sample ID: MB 480-505923/4
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/20/19 16:49	1

Lab Sample ID: LCS 480-505923/28
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.4		mg/L		101	90 - 110		

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-505923/5
Matrix: Water
Analysis Batch: 505923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.2		mg/L		100	90 - 110		

Lab Sample ID: 480-162881-5 MS
Matrix: Surface Water
Analysis Batch: 505923

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	2.1		44.0	52.1		mg/L		114	54 - 131		

Lab Sample ID: 480-162881-5 MSD
Matrix: Surface Water
Analysis Batch: 505923

Client Sample ID: SW-203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.1		44.0	49.5		mg/L		108	54 - 131	5	20

Metals

Prep Batch: 505772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	3020A	
480-162881-2	SW-101	Total/NA	Surface Water	3020A	
480-162881-3	SW-102	Total/NA	Surface Water	3020A	
480-162881-4	SW-201	Total/NA	Surface Water	3020A	
480-162881-5	SW-203	Total/NA	Surface Water	3020A	
480-162881-6	SW-204	Total/NA	Surface Water	3020A	
480-162881-7	SW-801	Total/NA	Surface Water	3020A	
480-162881-8	SW-9	Total/NA	Surface Water	3020A	
480-162881-9	SW-A	Total/NA	Surface Water	3020A	
480-162881-10	SW-B	Total/NA	Surface Water	3020A	
480-162881-11	SW-C	Total/NA	Surface Water	3020A	
MB 480-505772/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-505772/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-162881-1 MS	DUP-SW-01	Total/NA	Surface Water	3020A	
480-162881-1 MSD	DUP-SW-01	Total/NA	Surface Water	3020A	

Prep Batch: 505774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	3005A	
480-162881-2	SW-101	Total/NA	Surface Water	3005A	
480-162881-3	SW-102	Total/NA	Surface Water	3005A	
480-162881-4	SW-201	Total/NA	Surface Water	3005A	
480-162881-5	SW-203	Total/NA	Surface Water	3005A	
480-162881-6	SW-204	Total/NA	Surface Water	3005A	
480-162881-7	SW-801	Total/NA	Surface Water	3005A	
480-162881-8	SW-9	Total/NA	Surface Water	3005A	
480-162881-9	SW-A	Total/NA	Surface Water	3005A	
480-162881-10	SW-B	Total/NA	Surface Water	3005A	
480-162881-11	SW-C	Total/NA	Surface Water	3005A	
MB 480-505774/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-505774/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-162881-5 MS	SW-203	Total/NA	Surface Water	3005A	
480-162881-5 MSD	SW-203	Total/NA	Surface Water	3005A	

Analysis Batch: 506557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	6010C	505774
480-162881-2	SW-101	Total/NA	Surface Water	6010C	505774
480-162881-3	SW-102	Total/NA	Surface Water	6010C	505774
480-162881-4	SW-201	Total/NA	Surface Water	6010C	505774
480-162881-5	SW-203	Total/NA	Surface Water	6010C	505774
480-162881-6	SW-204	Total/NA	Surface Water	6010C	505774
480-162881-7	SW-801	Total/NA	Surface Water	6010C	505774
480-162881-8	SW-9	Total/NA	Surface Water	6010C	505774
480-162881-9	SW-A	Total/NA	Surface Water	6010C	505774
480-162881-10	SW-B	Total/NA	Surface Water	6010C	505774
480-162881-11	SW-C	Total/NA	Surface Water	6010C	505774
MB 480-505774/1-A	Method Blank	Total/NA	Water	6010C	505774
LCS 480-505774/2-A	Lab Control Sample	Total/NA	Water	6010C	505774
480-162881-5 MS	SW-203	Total/NA	Surface Water	6010C	505774
480-162881-5 MSD	SW-203	Total/NA	Surface Water	6010C	505774

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Metals

Analysis Batch: 506991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	6020A	505772
480-162881-2	SW-101	Total/NA	Surface Water	6020A	505772
480-162881-3	SW-102	Total/NA	Surface Water	6020A	505772
480-162881-4	SW-201	Total/NA	Surface Water	6020A	505772
480-162881-5	SW-203	Total/NA	Surface Water	6020A	505772
480-162881-6	SW-204	Total/NA	Surface Water	6020A	505772
480-162881-7	SW-801	Total/NA	Surface Water	6020A	505772
480-162881-8	SW-9	Total/NA	Surface Water	6020A	505772
480-162881-9	SW-A	Total/NA	Surface Water	6020A	505772
480-162881-10	SW-B	Total/NA	Surface Water	6020A	505772
480-162881-11	SW-C	Total/NA	Surface Water	6020A	505772
MB 480-505772/1-A	Method Blank	Total/NA	Water	6020A	505772
LCS 480-505772/2-A	Lab Control Sample	Total/NA	Water	6020A	505772
480-162881-1 MS	DUP-SW-01	Total/NA	Surface Water	6020A	505772
480-162881-1 MSD	DUP-SW-01	Total/NA	Surface Water	6020A	505772

Prep Batch: 508278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	3005A	
480-162881-3	SW-102	Total/NA	Surface Water	3005A	
480-162881-4	SW-201	Total/NA	Surface Water	3005A	
480-162881-5	SW-203	Total/NA	Surface Water	3005A	
480-162881-6	SW-204	Total/NA	Surface Water	3005A	
480-162881-7	SW-801	Total/NA	Surface Water	3005A	
480-162881-10	SW-B	Total/NA	Surface Water	3005A	
MB 480-508278/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-508278/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-162881-3 MS	SW-102	Total/NA	Surface Water	3005A	
480-162881-3 MSD	SW-102	Total/NA	Surface Water	3005A	

Analysis Batch: 508436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	6010C	508278
480-162881-3	SW-102	Total/NA	Surface Water	6010C	508278
480-162881-4	SW-201	Total/NA	Surface Water	6010C	508278
480-162881-5	SW-203	Total/NA	Surface Water	6010C	508278
480-162881-6	SW-204	Total/NA	Surface Water	6010C	508278
480-162881-7	SW-801	Total/NA	Surface Water	6010C	508278
480-162881-10	SW-B	Total/NA	Surface Water	6010C	508278
MB 480-508278/1-A	Method Blank	Total/NA	Water	6010C	508278
LCS 480-508278/2-A	Lab Control Sample	Total/NA	Water	6010C	508278
480-162881-3 MS	SW-102	Total/NA	Surface Water	6010C	508278
480-162881-3 MSD	SW-102	Total/NA	Surface Water	6010C	508278

General Chemistry

Analysis Batch: 505524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	353.2	
480-162881-2	SW-101	Total/NA	Surface Water	353.2	
480-162881-3	SW-102	Total/NA	Surface Water	353.2	

General Chemistry (Continued)

Analysis Batch: 505524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-4	SW-201	Total/NA	Surface Water	353.2	
480-162881-5	SW-203	Total/NA	Surface Water	353.2	
480-162881-6	SW-204	Total/NA	Surface Water	353.2	
480-162881-7	SW-801	Total/NA	Surface Water	353.2	
480-162881-8	SW-9	Total/NA	Surface Water	353.2	
480-162881-9	SW-A	Total/NA	Surface Water	353.2	
480-162881-10	SW-B	Total/NA	Surface Water	353.2	
480-162881-11	SW-C	Total/NA	Surface Water	353.2	

Analysis Batch: 505708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	350.1	
480-162881-2	SW-101	Total/NA	Surface Water	350.1	
480-162881-3	SW-102	Total/NA	Surface Water	350.1	
480-162881-4	SW-201	Total/NA	Surface Water	350.1	
480-162881-5	SW-203	Total/NA	Surface Water	350.1	
480-162881-6	SW-204	Total/NA	Surface Water	350.1	
480-162881-7	SW-801	Total/NA	Surface Water	350.1	
480-162881-8	SW-9	Total/NA	Surface Water	350.1	
480-162881-9	SW-A	Total/NA	Surface Water	350.1	
480-162881-10	SW-B	Total/NA	Surface Water	350.1	
480-162881-11	SW-C	Total/NA	Surface Water	350.1	
MB 480-505708/147	Method Blank	Total/NA	Water	350.1	
MB 480-505708/27	Method Blank	Total/NA	Water	350.1	
MB 480-505708/99	Method Blank	Total/NA	Water	350.1	
LCS 480-505708/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505708/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-505708/28	Lab Control Sample	Total/NA	Water	350.1	
480-162881-1 MS	DUP-SW-01	Total/NA	Surface Water	350.1	
480-162881-8 MS	SW-9	Total/NA	Surface Water	350.1	
480-162881-8 DU	SW-9	Total/NA	Surface Water	350.1	

Analysis Batch: 505923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	SM 5310C	
480-162881-2	SW-101	Total/NA	Surface Water	SM 5310C	
480-162881-3	SW-102	Total/NA	Surface Water	SM 5310C	
480-162881-4	SW-201	Total/NA	Surface Water	SM 5310C	
480-162881-5	SW-203	Total/NA	Surface Water	SM 5310C	
480-162881-6	SW-204	Total/NA	Surface Water	SM 5310C	
480-162881-7	SW-801	Total/NA	Surface Water	SM 5310C	
480-162881-8	SW-9	Total/NA	Surface Water	SM 5310C	
480-162881-9	SW-A	Total/NA	Surface Water	SM 5310C	
480-162881-10	SW-B	Total/NA	Surface Water	SM 5310C	
480-162881-11	SW-C	Total/NA	Surface Water	SM 5310C	
MB 480-505923/27	Method Blank	Total/NA	Water	SM 5310C	
MB 480-505923/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-505923/28	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-505923/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-162881-5 MS	SW-203	Total/NA	Surface Water	SM 5310C	
480-162881-5 MSD	SW-203	Total/NA	Surface Water	SM 5310C	

General Chemistry

Analysis Batch: 506229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	SM 2540C	
480-162881-2	SW-101	Total/NA	Surface Water	SM 2540C	
480-162881-3	SW-102	Total/NA	Surface Water	SM 2540C	
480-162881-4	SW-201	Total/NA	Surface Water	SM 2540C	
480-162881-5	SW-203	Total/NA	Surface Water	SM 2540C	
480-162881-6	SW-204	Total/NA	Surface Water	SM 2540C	
480-162881-7	SW-801	Total/NA	Surface Water	SM 2540C	
480-162881-8	SW-9	Total/NA	Surface Water	SM 2540C	
480-162881-9	SW-A	Total/NA	Surface Water	SM 2540C	
480-162881-10	SW-B	Total/NA	Surface Water	SM 2540C	
480-162881-11	SW-C	Total/NA	Surface Water	SM 2540C	
MB 480-506229/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506229/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	SM 2540D	
480-162881-2	SW-101	Total/NA	Surface Water	SM 2540D	
480-162881-3	SW-102	Total/NA	Surface Water	SM 2540D	
480-162881-4	SW-201	Total/NA	Surface Water	SM 2540D	
480-162881-5	SW-203	Total/NA	Surface Water	SM 2540D	
480-162881-6	SW-204	Total/NA	Surface Water	SM 2540D	
480-162881-7	SW-801	Total/NA	Surface Water	SM 2540D	
480-162881-8	SW-9	Total/NA	Surface Water	SM 2540D	
480-162881-9	SW-A	Total/NA	Surface Water	SM 2540D	
480-162881-10	SW-B	Total/NA	Surface Water	SM 2540D	
480-162881-11	SW-C	Total/NA	Surface Water	SM 2540D	
MB 480-506234/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506234/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 507529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	310.2	
480-162881-2	SW-101	Total/NA	Surface Water	310.2	
480-162881-3	SW-102	Total/NA	Surface Water	310.2	
480-162881-7	SW-801	Total/NA	Surface Water	310.2	
480-162881-9	SW-A	Total/NA	Surface Water	310.2	
480-162881-10	SW-B	Total/NA	Surface Water	310.2	
480-162881-11	SW-C	Total/NA	Surface Water	310.2	
MB 480-507529/136	Method Blank	Total/NA	Water	310.2	
MB 480-507529/150	Method Blank	Total/NA	Water	310.2	
MB 480-507529/159	Method Blank	Total/NA	Water	310.2	
MB 480-507529/167	Method Blank	Total/NA	Water	310.2	
LCS 480-507529/134	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507529/148	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507529/157	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507529/165	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	9038	

General Chemistry (Continued)

Analysis Batch: 507530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-2	SW-101	Total/NA	Surface Water	9038	
480-162881-3	SW-102	Total/NA	Surface Water	9038	
480-162881-4	SW-201	Total/NA	Surface Water	9038	
480-162881-5	SW-203	Total/NA	Surface Water	9038	
480-162881-6	SW-204	Total/NA	Surface Water	9038	
480-162881-7	SW-801	Total/NA	Surface Water	9038	
480-162881-8	SW-9	Total/NA	Surface Water	9038	
480-162881-9	SW-A	Total/NA	Surface Water	9038	
480-162881-10	SW-B	Total/NA	Surface Water	9038	
480-162881-11	SW-C	Total/NA	Surface Water	9038	
MB 480-507530/117	Method Blank	Total/NA	Water	9038	
MB 480-507530/145	Method Blank	Total/NA	Water	9038	
LCS 480-507530/118	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507530/146	Lab Control Sample	Total/NA	Water	9038	
480-162881-1 MS	DUP-SW-01	Total/NA	Surface Water	9038	
480-162881-1 MSD	DUP-SW-01	Total/NA	Surface Water	9038	
480-162881-2 MS	SW-101	Total/NA	Surface Water	9038	
480-162881-2 MSD	SW-101	Total/NA	Surface Water	9038	
480-162881-3 MS	SW-102	Total/NA	Surface Water	9038	
480-162881-3 MSD	SW-102	Total/NA	Surface Water	9038	

Analysis Batch: 507531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	9251	
480-162881-2	SW-101	Total/NA	Surface Water	9251	
480-162881-3	SW-102	Total/NA	Surface Water	9251	
480-162881-4	SW-201	Total/NA	Surface Water	9251	
480-162881-5	SW-203	Total/NA	Surface Water	9251	
480-162881-6	SW-204	Total/NA	Surface Water	9251	
480-162881-7	SW-801	Total/NA	Surface Water	9251	
480-162881-8	SW-9	Total/NA	Surface Water	9251	
480-162881-9	SW-A	Total/NA	Surface Water	9251	
480-162881-10	SW-B	Total/NA	Surface Water	9251	
MB 480-507531/142	Method Blank	Total/NA	Water	9251	
MB 480-507531/149	Method Blank	Total/NA	Water	9251	
MB 480-507531/174	Method Blank	Total/NA	Water	9251	
LCS 480-507531/141	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507531/148	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507531/173	Lab Control Sample	Total/NA	Water	9251	
480-162881-1 MS	DUP-SW-01	Total/NA	Surface Water	9251	
480-162881-1 MSD	DUP-SW-01	Total/NA	Surface Water	9251	
480-162881-2 MS	SW-101	Total/NA	Surface Water	9251	
480-162881-2 MSD	SW-101	Total/NA	Surface Water	9251	
480-162881-3 MS	SW-102	Total/NA	Surface Water	9251	
480-162881-3 MSD	SW-102	Total/NA	Surface Water	9251	

Analysis Batch: 507740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-4	SW-201	Total/NA	Surface Water	310.2	
480-162881-5	SW-203	Total/NA	Surface Water	310.2	
480-162881-6	SW-204	Total/NA	Surface Water	310.2	

General Chemistry (Continued)

Analysis Batch: 507740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-8	SW-9	Total/NA	Surface Water	310.2	
MB 480-507740/12	Method Blank	Total/NA	Water	310.2	
MB 480-507740/24	Method Blank	Total/NA	Water	310.2	
MB 480-507740/49	Method Blank	Total/NA	Water	310.2	
LCS 480-507740/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507740/25	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507740/50	Lab Control Sample	Total/NA	Water	310.2	
480-162881-4 MS	SW-201	Total/NA	Surface Water	310.2	

Analysis Batch: 507743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-11	SW-C	Total/NA	Surface Water	9251	
MB 480-507743/153	Method Blank	Total/NA	Water	9251	
MB 480-507743/188	Method Blank	Total/NA	Water	9251	
LCS 480-507743/152	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507743/187	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 507940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-6	SW-204	Total/NA	Surface Water	410.4	
480-162881-7	SW-801	Total/NA	Surface Water	410.4	
480-162881-8	SW-9	Total/NA	Surface Water	410.4	
480-162881-9	SW-A	Total/NA	Surface Water	410.4	
480-162881-10	SW-B	Total/NA	Surface Water	410.4	
480-162881-11	SW-C	Total/NA	Surface Water	410.4	
MB 480-507940/3	Method Blank	Total/NA	Water	410.4	
LCS 480-507940/4	Lab Control Sample	Total/NA	Water	410.4	
480-162881-7 MS	SW-801	Total/NA	Surface Water	410.4	
480-162881-7 MSD	SW-801	Total/NA	Surface Water	410.4	

Analysis Batch: 508019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	410.4	
480-162881-2	SW-101	Total/NA	Surface Water	410.4	
480-162881-3	SW-102	Total/NA	Surface Water	410.4	
480-162881-4	SW-201	Total/NA	Surface Water	410.4	
480-162881-5	SW-203	Total/NA	Surface Water	410.4	
MB 480-508019/76	Method Blank	Total/NA	Water	410.4	
LCS 480-508019/77	Lab Control Sample	Total/NA	Water	410.4	
480-162881-5 MS	SW-203	Total/NA	Surface Water	410.4	
480-162881-5 MSD	SW-203	Total/NA	Surface Water	410.4	

Analysis Batch: 508492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	SM 1030E	
480-162881-2	SW-101	Total/NA	Surface Water	SM 1030E	
480-162881-3	SW-102	Total/NA	Surface Water	SM 1030E	
480-162881-4	SW-201	Total/NA	Surface Water	SM 1030E	
480-162881-5	SW-203	Total/NA	Surface Water	SM 1030E	
480-162881-6	SW-204	Total/NA	Surface Water	SM 1030E	
480-162881-7	SW-801	Total/NA	Surface Water	SM 1030E	

General Chemistry (Continued)

Analysis Batch: 508492 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-8	SW-9	Total/NA	Surface Water	SM 1030E	
480-162881-9	SW-A	Total/NA	Surface Water	SM 1030E	
480-162881-10	SW-B	Total/NA	Surface Water	SM 1030E	
480-162881-11	SW-C	Total/NA	Surface Water	SM 1030E	

Field Service / Mobile Lab

Analysis Batch: 510294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-162881-1	DUP-SW-01	Total/NA	Surface Water	Field Sampling	
480-162881-2	SW-101	Total/NA	Surface Water	Field Sampling	
480-162881-3	SW-102	Total/NA	Surface Water	Field Sampling	
480-162881-4	SW-201	Total/NA	Surface Water	Field Sampling	
480-162881-5	SW-203	Total/NA	Surface Water	Field Sampling	
480-162881-6	SW-204	Total/NA	Surface Water	Field Sampling	
480-162881-7	SW-801	Total/NA	Surface Water	Field Sampling	
480-162881-8	SW-9	Total/NA	Surface Water	Field Sampling	
480-162881-9	SW-A	Total/NA	Surface Water	Field Sampling	
480-162881-10	SW-B	Total/NA	Surface Water	Field Sampling	
480-162881-11	SW-C	Total/NA	Surface Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: DUP-SW-01
Lab Sample ID: 480-162881-1
Date Collected: 11/18/19 11:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:06	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 16:48	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 20:37	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507529	12/01/19 11:54	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:06	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:14	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508019	12/03/19 14:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 02:36	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 02:39	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 21:25	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 11:35	FLD	TAL BUF

Client Sample ID: SW-101
Lab Sample ID: 480-162881-2
Date Collected: 11/18/19 15:05
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:10	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 20:49	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507529	12/01/19 09:25	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:53	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:17	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508019	12/03/19 14:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 02:58	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:01	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 21:40	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 15:05	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-102
Lab Sample ID: 480-162881-3
Date Collected: 11/18/19 11:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:14	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 16:52	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 20:58	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507529	12/01/19 09:25	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:09	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:19	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508019	12/03/19 14:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:00	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:03	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 21:56	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 11:35	FLD	TAL BUF

Client Sample ID: SW-201
Lab Sample ID: 480-162881-4
Date Collected: 11/18/19 13:45
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:17	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 17:10	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:00	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507740	12/02/19 19:35	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:10	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:20	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508019	12/03/19 14:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:15	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:17	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 22:11	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 13:45	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-203
Lab Sample ID: 480-162881-5
Date Collected: 11/18/19 14:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:21	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 17:14	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:03	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507740	12/02/19 19:35	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:11	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 21:29	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508019	12/03/19 14:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:15	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	12/01/19 08:47	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/20/19 23:28	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 14:35	FLD	TAL BUF

Client Sample ID: SW-204
Lab Sample ID: 480-162881-6
Date Collected: 11/18/19 14:00
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:51	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 17:17	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:05	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507740	12/02/19 20:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:11	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:23	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:17	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:21	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 00:14	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 14:00	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-801
Lab Sample ID: 480-162881-7
Date Collected: 11/18/19 12:20
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:55	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 17:32	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:07	KMP	TAL BUF
Total/NA	Analysis	310.2		5	507529	11/30/19 03:35	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 21:30	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:18	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:21	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 00:29	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 12:20	FLD	TAL BUF

Client Sample ID: SW-9
Lab Sample ID: 480-162881-8
Date Collected: 11/18/19 14:45
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 14:59	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:09	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507740	12/02/19 20:14	SRW	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:15	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:25	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:20	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	11/30/19 03:22	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 00:44	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 14:45	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-A
Lab Sample ID: 480-162881-9
Date Collected: 11/18/19 15:50
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 15:03	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:12	KMP	TAL BUF
Total/NA	Analysis	310.2		2	507529	11/30/19 03:34	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:17	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 21:31	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:27	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	12/01/19 08:47	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 01:00	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 15:50	FLD	TAL BUF

Client Sample ID: SW-B
Lab Sample ID: 480-162881-10
Date Collected: 11/18/19 15:35
Matrix: Surface Water
Date Received: 11/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 15:07	LMH	TAL BUF
Total/NA	Prep	3005A			508278	12/05/19 10:58	ADM	TAL BUF
Total/NA	Analysis	6010C		1	508436	12/05/19 17:36	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:14	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507529	11/30/19 03:35	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:18	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 21:32	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:36	KEB	TAL BUF
Total/NA	Analysis	9251		1	507531	12/01/19 08:45	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 01:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 15:35	FLD	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Client Sample ID: SW-C
Date Collected: 11/18/19 15:20
Date Received: 11/19/19 10:00

Lab Sample ID: 480-162881-11
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			505774	11/21/19 10:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	506557	11/23/19 15:10	LMH	TAL BUF
Total/NA	Prep	3020A			505772	11/21/19 09:58	ADM	TAL BUF
Total/NA	Analysis	6020A		1	506991	11/26/19 21:16	KMP	TAL BUF
Total/NA	Analysis	310.2		1	507529	11/30/19 03:41	KEB	TAL BUF
Total/NA	Analysis	350.1		1	505708	11/20/19 13:19	CLT	TAL BUF
Total/NA	Analysis	353.2		1	505524	11/19/19 19:33	BEF	TAL BUF
Total/NA	Analysis	410.4		1	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	507530	11/30/19 03:37	KEB	TAL BUF
Total/NA	Analysis	9251		1	507743	12/03/19 01:47	KEB	TAL BUF
Total/NA	Analysis	SM 1030E		1	508492	12/06/19 10:17	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506229	11/22/19 13:14	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506234	11/22/19 13:21	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	505923	11/21/19 02:01	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	510294	11/18/19 15:20	FLD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Surface Water	Sulfate
9251		Surface Water	Chloride
Field Sampling		Surface Water	Field EH/ORP
Field Sampling		Surface Water	Field pH
Field Sampling		Surface Water	Oxygen, Dissolved
Field Sampling		Surface Water	Specific Conductance
Field Sampling		Surface Water	Temperature
Field Sampling		Surface Water	Turbidity
SM 1030E		Surface Water	Anion/Cation Balance
SM 1030E		Surface Water	Calculated TDS
SM 1030E		Surface Water	TDS Ratio
SM 1030E		Surface Water	TDS to Conductivity Ratio

Method Summary

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Surface Water

Job ID: 480-162881-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-162881-1	DUP-SW-01	Surface Water	11/18/19 11:35	11/19/19 10:00	
480-162881-2	SW-101	Surface Water	11/18/19 15:05	11/19/19 10:00	
480-162881-3	SW-102	Surface Water	11/18/19 11:35	11/19/19 10:00	
480-162881-4	SW-201	Surface Water	11/18/19 13:45	11/19/19 10:00	
480-162881-5	SW-203	Surface Water	11/18/19 14:35	11/19/19 10:00	
480-162881-6	SW-204	Surface Water	11/18/19 14:00	11/19/19 10:00	
480-162881-7	SW-801	Surface Water	11/18/19 12:20	11/19/19 10:00	
480-162881-8	SW-9	Surface Water	11/18/19 14:45	11/19/19 10:00	
480-162881-9	SW-A	Surface Water	11/18/19 15:50	11/19/19 10:00	
480-162881-10	SW-B	Surface Water	11/18/19 15:35	11/19/19 10:00	
480-162881-11	SW-C	Surface Water	11/18/19 15:20	11/19/19 10:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-162881-1
Project/Site: Crossroads ME: S/A Surface Water

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Surface Water	Total/NA	ug/L	9.0	15
6010C	Calcium	Surface Water	Total/NA	ug/L	150	500
6010C	Iron	Surface Water	Total/NA	ug/L	30	50
6010C	Potassium	Surface Water	Total/NA	ug/L	200	500
6010C	Sodium	Surface Water	Total/NA	ug/L	400	1000
6020A	Lead	Surface Water	Total/NA	ug/L	0.40	1.0
9251	Chloride	Surface Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Surface Water	Total/NA	mg/L	5.0	10

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Katrina Aman / Nick Adams	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136452-23836.1
Client Contact: Sherwood McKenney	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 6	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Surface Water (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation/Anion Balance	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
Preservation Code:							S	D	N	A	N	N	N	N	N		
~~SW-101~~				Water													
SW-102	11/18/19	1135	G	Water			1	1	1	2	1	1	X	1	1		
SW-201		1345	G	Water			1	1	1	2	1	1	X	1	1		
~~SW-203~~				Water													
~~SW-204~~				Water													
SW-801				Water													
~~SW-9~~		1220	G	Water			1	1	1	2	1	1	X	1	1		
~~SW-A~~				Water													
~~SW-B~~				Water													
~~SW-C~~				Water													
DUP-SW-01	↓	1135	G	Water			1	1	1	2	1	1	X	1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/18/19 1800		[signature]	11/19/A 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: # (3.4, 3.1, 3.7, 3.0, 3.2

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AMAN /ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136452-23836.1
Client Contact: Sherwood McKenney	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:

Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 6	Due Date Requested:
City: Norridgewock	TAT Requested (days):
State, Zip: ME, 04957	
Phone:	PO #: Purchase Order Requested
Email: smckenne@wm.com	WO #:
Project Name: Crossroads ME/ Event Desc: Semi-Annual Surface Water (8,11)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation/Anion Balance	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	D	N	A	N	N	N	N	N		
SW-101	11/18/19	1505	G	Water			1	1	1	2	1	1	X	1	1		
~~SW-102~~				Water													
~~SW-204~~				Water													
SW-203		1435	G	Water			1	1	1	2	1	1	X	1	1		
~~SW-204~~				Water													
~~SW-801~~				Water													
SW-9		1445	G	Water			1	1	1	2	1	1	X	1	1		
~~SW-A~~				Water													
~~SW-B~~				Water													
~~SW-C~~				Water													
~~DUP-SW-01~~				Water													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/18/19 1800		C Wallace	11/19/19 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AMAN / ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136452-23836.1
Client Contact: Sherwood McKenney	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 6	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual Surface Water (8,11)	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation/Anion Balance	5310C - Total Organic Carbon	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total					Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N	A	N	N	N	N	N						
~~SW-101~~				Water																	
~~SW-102~~				Water																	
~~SW-201~~				Water																	
~~SW-203~~				Water																	
SW-204	11/18/19	1400	G	Water			1	1	1	2	1	1	X	1	1						
~~SW-801~~				Water																	
~~SW-9~~				Water																	
SW-A		1550	G	Water			1	1	1	2	1	1	X	1	1						
SW-B		1535	G	Water			1	1	1	2	1	1	X	1	1						
SW-C	↓	1520	G	Water			1	1	1	2	1	1	X	1	1						
~~DUP-SW-01~~				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/18/19 1800		[signature]	11/19/19 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: DUP + SW (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or [N]
Filter Device: [Y] or (N) [0.45 µ] or [ ] µ (circle or fill in)
Purging Device: —
Sampling Device: F
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
X-Other:
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
	083		

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or site Permit/State requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	6.68	165	3.8	08	1.48	1830	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: yellowish Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: E 10 N
Outlook: overcast
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-101 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): 1.10 (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–		+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	6.67	1175	15	249	111	-448	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: Lt. Yellow
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10 N
Outlook: Cloudy
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-201 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other
Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)
Depth to Water (DTW) (from TOC): ____ (ft)
Groundwater Elevation (site datum, from TOC): ____ (ft/msl)
Total Well Depth (from TOC): ____ (ft)
Stick Up (from ground elevation): UNDER WATER (ft)
Casing ID: ____ (in)
Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	7.07	1116	08	01	135	-119	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal
Odor: None
Color: Lt Yellow Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10N
Outlook: Cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS
___/___/___			

DISTRIBUTION: WHITE - ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-102 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/18/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing, Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
Sampling Device: F
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	0.83 KA	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
	0.83		

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or site Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	6.68	165	3.8	0.8	1.48	183.0	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: Normal
Odor: None
Color: Yellowish
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10N
Outlook: Overcast
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (If more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-203 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other

Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	2.16 (ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.15	183	4.4	5.8	12.9	-69.7 -66.4	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Lt Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S-10 N Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Cross roads
Site No.:
Sample Point: SW-204 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other
Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation) 1.32 (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.71	106	14	08	1.35	-57.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal Odor: None Color: Lt Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S-10N Outlook: Cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads | Site No.: | Sample Point: SW-801 (Sample ID)

This Waste Management Field Information Form is Required for each sample collected at a WM facility. The Field Form is required along with the Chain of Custody Form that accompanies the sample containers (i.e. with the sample data is retained in the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME	ELAPSED HRS	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Purging and Sampling Equipment: Dedicated: (Y) or N

Purging Device: —

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other:

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 11.46 (ft)

Groundwater Elevation (rel to datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): 1.46 (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (umhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1"		1"					
	2"		2"					
	3"		3"					
	4"		4"					
Suggested range for 3 consec. readings or note Permit/Site requirements:		+/- 0.2	+/- 3%	+/-		+/- 10%	+/- 25 mV	Stabilized

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: FLOW Units
11/18/19	6.89	227	4.0	1.8	13.9	226.7	SLOW

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: NORMAL Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: N 6 10 Outlook: CLOUDY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

11/18/19 NICK ADAMS KAS

Date Name

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-9 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
Sampling Device: F
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
X-Other:

Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
	2.6		

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:		1st	1st					
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	—	—	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	6.97	1214	24	3050	4.5	-66.7	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal **Odor:** Strong **Color:** Brown **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** S-10N **Outlook:** cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/18/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below:

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): 1.5 (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					1st
2nd		2nd	2nd					2nd
3rd		3rd	3rd					3rd
4th		4th	4th					4th
Suggested range for 3 consec. readings or note Permit/Site requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/18/19	7.61	185	21	180	1.39	268	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: Normal
Odor: None
Color: Lt Brown
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10N
Outlook: Cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina Aman	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Crossroads
Site No.:
Sample Point: SW-B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
Sampling Device: F
X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: —
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: —
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation): 1 1 0 (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st		1st	1st					
2nd		2nd	2nd					
3rd		3rd	3rd					
4th		4th	4th					
Suggested range for 3 consec. readings or State Permit requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	6.90	1008	8.7 KA	8.9	1.33	298	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: Normal
Odor: None
Color: Lt Yellow
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: S-10N
Outlook: Cloudy
Precipitation: Y or (N)
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Crossroads
Site No.:
Sample Point: SW-C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Purging Device: —
Sampling Device: F
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
X-Other:
Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): 0.5 0 (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 18 19	6.37	449	17	113	2.4	-93	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Normal **Odor:** None **Color:** Lt. Yellow **Other:**

Weather Conditions (required daily, or as conditions change): **Direction/Speed:** S-10N **Outlook:** Cloudy **Precipitation:** Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/18/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-162881-1

Login Number: 162881
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-163035-1
Client Project/Site: Crossroads ME-Wick Drain
Sampling Event: Wick Drain's - (4,8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Katelyn Ferguson

Authorized for release by:
12/16/2019 12:55:15 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-163035-1
Project/Site: Crossroads ME-Wick Drain

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Job ID: 480-163035-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-163035-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 8BCWD (480-163035-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: 8BCWD

Lab Sample ID: 480-163035-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloroethane	4.6		4.0		ug/L	4		8260C	Total/NA
Arsenic	0.31		0.0090		mg/L	1		6010C	Total/NA
Barium	0.099		0.0050		mg/L	1		6010C	Total/NA
Calcium	61		0.15		mg/L	1		6010C	Total/NA
Iron	38		0.030		mg/L	1		6010C	Total/NA
Magnesium	30		0.24		mg/L	1		6010C	Total/NA
Manganese	1.7		0.010		mg/L	1		6010C	Total/NA
Potassium	15		1.0		mg/L	1		6010C	Total/NA
Sodium	69		0.40		mg/L	1		6010C	Total/NA
Arsenic	0.35		0.010		mg/L	1		6010C	Dissolved
Barium	0.11		0.0050		mg/L	1		6010C	Dissolved
Calcium	65		0.50		mg/L	1		6010C	Dissolved
Iron	40		0.030		mg/L	1		6010C	Dissolved
Magnesium	32		0.20		mg/L	1		6010C	Dissolved
Manganese	1.9		0.010		mg/L	1		6010C	Dissolved
Potassium	16		0.20		mg/L	1		6010C	Dissolved
Sodium	73		0.40		mg/L	1		6010C	Dissolved
Specific Conductance (25C)	960		1.0		umhos/cm	1		120.1	Total/NA
Alkalinity, Total	410		50		mg/L	5		310.2	Total/NA
Ammonia as N	8.1		1.0		mg/L	5		350.1	Total/NA
Nitrate	0.056		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	56		10		mg/L	1		410.4	Total/NA
Chloride	62		1.0		mg/L	2		9251	Total/NA
Anion/Cation Balance	5.0				%	1		SM 1030E	Total/NA
Calculated TDS	520				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.2				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.62				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	620		5.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	18		1.0		mg/L	1		SM 5310C	Total/NA
Turbidity	4.8				NTU	1		Field Sampling	Total/NA
Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Field pH	6.21				SU	1		Field Sampling	Total/NA
Specific Conductance	998				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-60.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-163035-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: 8BCWD
Date Collected: 11/20/19 11:45
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163035-1
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	4.0		ug/L			11/22/19 01:36	4
1,1,2,2-Tetrachloroethane	ND	U	4.0		ug/L			11/22/19 01:36	4
1,1,2-Trichloroethane	ND	U	4.0		ug/L			11/22/19 01:36	4
1,1-Dichloroethane	ND	U	4.0		ug/L			11/22/19 01:36	4
1,1-Dichloroethene	ND	U	4.0		ug/L			11/22/19 01:36	4
1,2-Dichloroethane	ND	U	4.0		ug/L			11/22/19 01:36	4
1,2-Dichloropropane	ND	U	4.0		ug/L			11/22/19 01:36	4
2-Hexanone	ND	U	20		ug/L			11/22/19 01:36	4
2-Butanone	ND	U	40		ug/L			11/22/19 01:36	4
4-Methyl-2-pentanone	ND	U	20		ug/L			11/22/19 01:36	4
Acetone	ND	U	40		ug/L			11/22/19 01:36	4
Benzene	ND	U	4.0		ug/L			11/22/19 01:36	4
Bromodichloromethane	ND	U	4.0		ug/L			11/22/19 01:36	4
Bromoform	ND	U	4.0		ug/L			11/22/19 01:36	4
Bromomethane	ND	U	4.0		ug/L			11/22/19 01:36	4
Carbon disulfide	ND	U	4.0		ug/L			11/22/19 01:36	4
Carbon tetrachloride	ND	U	4.0		ug/L			11/22/19 01:36	4
Chlorobenzene	ND	U	4.0		ug/L			11/22/19 01:36	4
Dibromochloromethane	ND	U	4.0		ug/L			11/22/19 01:36	4
Chloroethane	**4.6**		4.0		ug/L			11/22/19 01:36	4
Chloroform	ND	U	4.0		ug/L			11/22/19 01:36	4
Chloromethane	ND	U	4.0		ug/L			11/22/19 01:36	4
cis-1,2-Dichloroethene	ND	U	4.0		ug/L			11/22/19 01:36	4
cis-1,3-Dichloropropene	ND	U	4.0		ug/L			11/22/19 01:36	4
Ethylbenzene	ND	U	4.0		ug/L			11/22/19 01:36	4
Methylene Chloride	ND	U	4.0		ug/L			11/22/19 01:36	4
Styrene	ND	U	4.0		ug/L			11/22/19 01:36	4
Tetrachloroethene	ND	U	4.0		ug/L			11/22/19 01:36	4
Toluene	ND	U	4.0		ug/L			11/22/19 01:36	4
trans-1,2-Dichloroethene	ND	U	4.0		ug/L			11/22/19 01:36	4
trans-1,3-Dichloropropene	ND	U	4.0		ug/L			11/22/19 01:36	4
Trichloroethene	ND	U	4.0		ug/L			11/22/19 01:36	4
Vinyl acetate	ND	U	20		ug/L			11/22/19 01:36	4
Vinyl chloride	ND	U	4.0		ug/L			11/22/19 01:36	4
Xylenes, Total	ND	U	8.0		ug/L			11/22/19 01:36	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/22/19 01:36*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/22/19 01:36*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/22/19 01:36*	*4*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*11/22/19 01:36*	*4*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.31**		0.0090		mg/L		11/23/19 10:34	11/26/19 07:56	1
Barium	**0.099**		0.0050		mg/L		11/23/19 10:34	11/26/19 07:56	1
Calcium	**61**		0.15		mg/L		11/23/19 10:34	11/26/19 07:56	1
Chromium	ND	U	0.010		mg/L		11/23/19 10:34	11/26/19 07:56	1
Iron	**38**		0.030		mg/L		11/23/19 10:34	11/26/19 07:56	1
Magnesium	**30**		0.24		mg/L		11/23/19 10:34	11/26/19 07:56	1

Client Sample ID: 8BCWD
Date Collected: 11/20/19 11:45
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163035-1
Matrix: Ground Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.010		mg/L		11/23/19 10:34	11/26/19 07:56	1
Nickel	ND	U	0.040		mg/L		11/23/19 10:34	11/26/19 07:56	1
Potassium	15		1.0		mg/L		11/23/19 10:34	11/26/19 07:56	1
Sodium	69		0.40		mg/L		11/23/19 10:34	11/26/19 07:56	1
Vanadium	ND	U	0.025		mg/L		11/23/19 10:34	11/26/19 07:56	1
Zinc	ND	U	0.020		mg/L		11/23/19 10:34	11/26/19 07:56	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.35		0.010		mg/L		11/25/19 08:15	11/30/19 11:56	1
Barium	0.11		0.0050		mg/L		11/25/19 08:15	11/30/19 11:56	1
Calcium	65		0.50		mg/L		11/25/19 08:15	11/30/19 11:56	1
Chromium	ND	U	0.010		mg/L		11/25/19 08:15	11/30/19 11:56	1
Iron	40		0.030		mg/L		11/25/19 08:15	11/30/19 11:56	1
Magnesium	32		0.20		mg/L		11/25/19 08:15	11/30/19 11:56	1
Manganese	1.9		0.010		mg/L		11/25/19 08:15	11/30/19 11:56	1
Nickel	ND	U	0.040		mg/L		11/25/19 08:15	11/30/19 11:56	1
Potassium	16		0.20		mg/L		11/25/19 08:15	11/30/19 11:56	1
Sodium	73		0.40		mg/L		11/25/19 08:15	11/30/19 11:56	1
Vanadium	ND	U	0.040		mg/L		11/25/19 08:15	11/30/19 11:56	1
Zinc	ND	U	0.020		mg/L		11/25/19 08:15	11/30/19 11:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		11/22/19 12:00	11/23/19 17:23	1
Copper	ND	U	0.0020		mg/L		11/22/19 12:00	11/23/19 17:23	1
Silver	ND	U	0.00020		mg/L		11/22/19 12:00	11/23/19 17:23	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		11/25/19 07:35	11/26/19 21:39	1
Copper	ND	U	0.0020		mg/L		11/25/19 07:35	11/26/19 21:39	1
Silver	ND	U	0.00020		mg/L		11/25/19 07:35	11/26/19 21:39	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	5.0				%			12/10/19 12:33	1
Calculated TDS	520				mg/L			12/10/19 12:33	1
TDS Ratio	1.2				NONE			12/10/19 12:33	1
TDS to Conductivity Ratio	0.62				NONE			12/10/19 12:33	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	410		50		mg/L			12/03/19 19:02	5
Ammonia as N	8.1		1.0		mg/L		11/26/19 09:00	11/26/19 13:56	5
Nitrate	0.056		0.050		mg/L as N			11/21/19 22:47	1
Chemical Oxygen Demand	56		10		mg/L			12/04/19 18:52	1
Sulfate	ND	U	5.0		mg/L			12/03/19 19:50	1
Chloride	62		1.0		mg/L			12/03/19 19:50	2
Total Dissolved Solids	620		5.0		mg/L			11/26/19 13:50	1
Total Organic Carbon	18		1.0		mg/L			11/22/19 22:16	1

Client Sample Results

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: 8BCWD

Date Collected: 11/20/19 11:45
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163035-1

Matrix: Ground Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	960		1.0		umhos/cm			12/14/19 14:33	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	4.8				NTU			11/20/19 11:45	1
Temperature	17.1				Degrees C			11/20/19 11:45	1
Field pH	6.21				SU			11/20/19 11:45	1
Specific Conductance	998				umhos/cm			11/20/19 11:45	1
Field EH/ORP	-60.5				millivolts			11/20/19 11:45	1
Oxygen, Dissolved	3.2				mg/L			11/20/19 11:45	1

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: TB
Date Collected: 11/20/19 00:00
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163035-2
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/22/19 02:01	1
2-Hexanone	ND	U	5.0		ug/L			11/22/19 02:01	1
2-Butanone	ND	U	10		ug/L			11/22/19 02:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/22/19 02:01	1
Acetone	ND	U	10		ug/L			11/22/19 02:01	1
Benzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromodichloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromoform	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromomethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Carbon disulfide	ND	U	1.0		ug/L			11/22/19 02:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Chlorobenzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Dibromochloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloroform	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/22/19 02:01	1
Ethylbenzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Methylene Chloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Styrene	ND	U	1.0		ug/L			11/22/19 02:01	1
Tetrachloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
Toluene	ND	U	1.0		ug/L			11/22/19 02:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/22/19 02:01	1
Trichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
Vinyl acetate	ND	U	5.0		ug/L			11/22/19 02:01	1
Vinyl chloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Xylenes, Total	ND	U	2.0		ug/L			11/22/19 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*11/22/19 02:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/22/19 02:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*11/22/19 02:01*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/22/19 02:01*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-163035-1	8BCWD	98	96	98	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-506006/5	Lab Control Sample	93	100	101	97
MB 480-506006/10	Method Blank	96	100	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-163035-2	TB	96	99	96	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-506006/10
Matrix: Water
Analysis Batch: 506006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/21/19 22:50	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/21/19 22:50	1
2-Hexanone	ND	U	5.0		ug/L			11/21/19 22:50	1
2-Butanone	ND	U	10		ug/L			11/21/19 22:50	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/21/19 22:50	1
Acetone	ND	U	10		ug/L			11/21/19 22:50	1
Benzene	ND	U	1.0		ug/L			11/21/19 22:50	1
Bromodichloromethane	ND	U	1.0		ug/L			11/21/19 22:50	1
Bromoform	ND	U	1.0		ug/L			11/21/19 22:50	1
Bromomethane	ND	U	1.0		ug/L			11/21/19 22:50	1
Carbon disulfide	ND	U	1.0		ug/L			11/21/19 22:50	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/21/19 22:50	1
Chlorobenzene	ND	U	1.0		ug/L			11/21/19 22:50	1
Dibromochloromethane	ND	U	1.0		ug/L			11/21/19 22:50	1
Chloroethane	ND	U	1.0		ug/L			11/21/19 22:50	1
Chloroform	ND	U	1.0		ug/L			11/21/19 22:50	1
Chloromethane	ND	U	1.0		ug/L			11/21/19 22:50	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/21/19 22:50	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/21/19 22:50	1
Ethylbenzene	ND	U	1.0		ug/L			11/21/19 22:50	1
Methylene Chloride	ND	U	1.0		ug/L			11/21/19 22:50	1
Styrene	ND	U	1.0		ug/L			11/21/19 22:50	1
Tetrachloroethene	ND	U	1.0		ug/L			11/21/19 22:50	1
Toluene	ND	U	1.0		ug/L			11/21/19 22:50	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/21/19 22:50	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/21/19 22:50	1
Trichloroethene	ND	U	1.0		ug/L			11/21/19 22:50	1
Vinyl acetate	ND	U	5.0		ug/L			11/21/19 22:50	1
Vinyl chloride	ND	U	1.0		ug/L			11/21/19 22:50	1
Xylenes, Total	ND	U	2.0		ug/L			11/21/19 22:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*11/21/19 22:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/21/19 22:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/21/19 22:50*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*11/21/19 22:50*	*1*

Lab Sample ID: LCS 480-506006/5
Matrix: Water
Analysis Batch: 506006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	22.2		ug/L		89	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-506006/5
Matrix: Water
Analysis Batch: 506006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	23.0		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	20.9		ug/L		84	66 - 127
1,2-Dichloroethane	25.0	20.9		ug/L		84	75 - 120
1,2-Dichloropropane	25.0	22.8		ug/L		91	76 - 120
2-Hexanone	125	128		ug/L		103	65 - 127
2-Butanone	125	121		ug/L		97	57 - 140
4-Methyl-2-pentanone	125	125		ug/L		100	71 - 125
Acetone	125	113		ug/L		91	56 - 142
Benzene	25.0	22.5		ug/L		90	71 - 124
Bromodichloromethane	25.0	21.3		ug/L		85	80 - 122
Bromoform	25.0	24.6		ug/L		98	61 - 132
Bromomethane	25.0	19.7		ug/L		79	55 - 144
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134
Carbon tetrachloride	25.0	22.5		ug/L		90	72 - 134
Chlorobenzene	25.0	22.8		ug/L		91	80 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Chloroethane	25.0	21.2		ug/L		85	69 - 136
Chloroform	25.0	22.2		ug/L		89	73 - 127
Chloromethane	25.0	22.9		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	21.8		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	22.6		ug/L		90	74 - 124
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
Styrene	25.0	24.4		ug/L		97	80 - 120
Tetrachloroethene	25.0	22.4		ug/L		90	74 - 122
Toluene	25.0	21.8		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	80 - 120
Trichloroethene	25.0	22.4		ug/L		90	74 - 123
Vinyl acetate	50.0	44.8		ug/L		90	50 - 144
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133
Xylenes, Total	50.0	48.0		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-506217/1-A
Matrix: Water
Analysis Batch: 506771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506217

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090	mg/L		11/23/19 10:34	11/26/19 06:22	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-506217/1-A
Matrix: Water
Analysis Batch: 506771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506217

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		11/23/19 10:34	11/26/19 06:22	1
Calcium	ND	U	0.15		mg/L		11/23/19 10:34	11/26/19 06:22	1
Chromium	ND	U	0.010		mg/L		11/23/19 10:34	11/26/19 06:22	1
Iron	ND	U	0.030		mg/L		11/23/19 10:34	11/26/19 06:22	1
Magnesium	ND	U	0.24		mg/L		11/23/19 10:34	11/26/19 06:22	1
Manganese	ND	U	0.010		mg/L		11/23/19 10:34	11/26/19 06:22	1
Nickel	ND	U	0.040		mg/L		11/23/19 10:34	11/26/19 06:22	1
Potassium	ND	U	1.0		mg/L		11/23/19 10:34	11/26/19 06:22	1
Sodium	ND	U	0.40		mg/L		11/23/19 10:34	11/26/19 06:22	1
Vanadium	ND	U	0.025		mg/L		11/23/19 10:34	11/26/19 06:22	1
Zinc	ND	U	0.020		mg/L		11/23/19 10:34	11/26/19 06:22	1

Lab Sample ID: LCS 480-506217/2-A
Matrix: Water
Analysis Batch: 506771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506217

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.195		mg/L		98	80 - 120		
Barium			0.200	0.211		mg/L		105	80 - 120		
Calcium			10.0	10.2		mg/L		102	80 - 120		
Chromium			0.200	0.200		mg/L		100	80 - 120		
Iron			10.0	10.3		mg/L		103	80 - 120		
Magnesium			10.0	10.0		mg/L		100	80 - 120		
Manganese			0.200	0.203		mg/L		102	80 - 120		
Nickel			0.200	0.196		mg/L		98	80 - 120		
Potassium			10.0	9.70		mg/L		97	80 - 120		
Sodium			10.0	9.59		mg/L		96	80 - 120		
Vanadium			0.200	0.196		mg/L		98	80 - 120		
Zinc			0.200	0.206		mg/L		103	80 - 120		

Lab Sample ID: MB 480-506308/1-A
Matrix: Water
Analysis Batch: 507592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506308

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.010		mg/L		11/25/19 08:15	11/30/19 11:49	1
Barium	ND	U	0.0050		mg/L		11/25/19 08:15	11/30/19 11:49	1
Calcium	ND	U	0.50		mg/L		11/25/19 08:15	11/30/19 11:49	1
Chromium	ND	U	0.010		mg/L		11/25/19 08:15	11/30/19 11:49	1
Iron	ND	U	0.030		mg/L		11/25/19 08:15	11/30/19 11:49	1
Magnesium	ND	U	0.20		mg/L		11/25/19 08:15	11/30/19 11:49	1
Manganese	ND	U	0.010		mg/L		11/25/19 08:15	11/30/19 11:49	1
Nickel	ND	U	0.040		mg/L		11/25/19 08:15	11/30/19 11:49	1
Potassium	ND	U	0.20		mg/L		11/25/19 08:15	11/30/19 11:49	1
Sodium	ND	U	0.40		mg/L		11/25/19 08:15	11/30/19 11:49	1
Vanadium	ND	U	0.040		mg/L		11/25/19 08:15	11/30/19 11:49	1
Zinc	ND	U	0.020		mg/L		11/25/19 08:15	11/30/19 11:49	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-506308/2-A
Matrix: Water
Analysis Batch: 507592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.209		mg/L		105	80 - 120
Barium	0.200	0.219		mg/L		109	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Iron	10.0	10.4		mg/L		104	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Nickel	0.200	0.203		mg/L		101	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Vanadium	0.200	0.206		mg/L		103	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-506205/1-A
Matrix: Water
Analysis Batch: 506803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506205

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050	mg/L		11/22/19 12:00	11/23/19 16:55	1
Copper	ND	U	0.0020	mg/L		11/22/19 12:00	11/23/19 16:55	1
Silver	ND	U	0.00020	mg/L		11/22/19 12:00	11/23/19 16:55	1

Lab Sample ID: LCS 480-506205/2-A
Matrix: Water
Analysis Batch: 506803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0200	0.0188		mg/L		94	80 - 120
Copper	0.0200	0.0207		mg/L		103	80 - 120
Silver	0.0200	0.0200		mg/L		100	80 - 120

Lab Sample ID: 480-163035-1 MS
Matrix: Ground Water
Analysis Batch: 506803

Client Sample ID: 8BCWD
Prep Type: Total/NA
Prep Batch: 506205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND	U	0.0200	0.0181		mg/L		91	75 - 125
Copper	ND	U	0.0200	0.0189		mg/L		94	75 - 125
Silver	ND	U	0.0200	0.0190		mg/L		95	75 - 125

Lab Sample ID: 480-163035-1 MSD
Matrix: Ground Water
Analysis Batch: 506803

Client Sample ID: 8BCWD
Prep Type: Total/NA
Prep Batch: 506205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND	U	0.0200	0.0180		mg/L		90	75 - 125	1	20
Copper	ND	U	0.0200	0.0191		mg/L		96	75 - 125	1	20
Silver	ND	U	0.0200	0.0186		mg/L		93	75 - 125	2	20

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 480-506307/1-A
Matrix: Water
Analysis Batch: 506992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506307

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	U	0.00050		mg/L		11/25/19 07:35	11/26/19 21:35	1
Copper	ND	U	0.0020		mg/L		11/25/19 07:35	11/26/19 21:35	1
Silver	ND	U	0.00020		mg/L		11/25/19 07:35	11/26/19 21:35	1

Lab Sample ID: LCS 480-506307/2-A
Matrix: Water
Analysis Batch: 506992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506307

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			0.0200	0.0181		mg/L		91	80 - 120		
Copper			0.0200	0.0218		mg/L		109	80 - 120		
Silver			0.0200	0.0183		mg/L		92	80 - 120		

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: LCS 480-509931/3
Matrix: Water
Analysis Batch: 509931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance (25C)			998	1010		umhos/cm		101	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-507954/53
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 18:37	1

Lab Sample ID: MB 480-507954/67
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10		mg/L			12/03/19 18:58	1

Lab Sample ID: LCS 480-507954/54
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	51.9		mg/L		104	90 - 110		

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-507954/68
Matrix: Water
Analysis Batch: 507954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.6		mg/L		109	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-506735/1-A
Matrix: Water
Analysis Batch: 506870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506735

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20		mg/L		11/26/19 09:00	11/26/19 13:45	1

Lab Sample ID: LCS 480-506735/2-A
Matrix: Water
Analysis Batch: 506870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.992		mg/L		99	90 - 110

Lab Sample ID: 480-163035-1 MS
Matrix: Ground Water
Analysis Batch: 506870

Client Sample ID: 8BCWD
Prep Type: Total/NA
Prep Batch: 506735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	8.1		0.500	8.30		mg/L		40	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-508243/28
Matrix: Water
Analysis Batch: 508243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			12/04/19 18:12	1

Lab Sample ID: LCS 480-508243/29
Matrix: Water
Analysis Batch: 508243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.8		mg/L		103	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-507958/170
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 16:01	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: MB 480-507958/215
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/03/19 20:12	1

Lab Sample ID: LCS 480-507958/171
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-507958/216
Matrix: Water
Analysis Batch: 507958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.2		mg/L		104	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-507957/102
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 17:59	1

Lab Sample ID: MB 480-507957/180
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 19:47	1

Lab Sample ID: MB 480-507957/84
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/03/19 17:48	1

Lab Sample ID: LCS 480-507957/101
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.6		mg/L		106	90 - 110		

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-507957/179
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.6		mg/L		107	90 - 110

Lab Sample ID: LCS 480-507957/83
Matrix: Water
Analysis Batch: 507957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-506865/1
Matrix: Water
Analysis Batch: 506865

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			11/26/19 13:50	1

Lab Sample ID: LCS 480-506865/2
Matrix: Water
Analysis Batch: 506865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	448		mg/L		89	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-506871/4
Matrix: Water
Analysis Batch: 506871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/22/19 19:59	1

Lab Sample ID: LCS 480-506871/5
Matrix: Water
Analysis Batch: 506871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.9		mg/L		102	90 - 110

GC/MS VOA

Analysis Batch: 506006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	8260C	
480-163035-2	TB	Total/NA	WQ	8260C	
MB 480-506006/10	Method Blank	Total/NA	Water	8260C	
LCS 480-506006/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 506205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	3020A	
MB 480-506205/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-506205/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-163035-1 MS	8BCWD	Total/NA	Ground Water	3020A	
480-163035-1 MSD	8BCWD	Total/NA	Ground Water	3020A	

Prep Batch: 506217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	3005A	
MB 480-506217/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-506217/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 506307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Dissolved	Ground Water	3020A	
MB 480-506307/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-506307/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 506308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Dissolved	Ground Water	3005A	
MB 480-506308/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-506308/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 506771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	6010C	506217
MB 480-506217/1-A	Method Blank	Total/NA	Water	6010C	506217
LCS 480-506217/2-A	Lab Control Sample	Total/NA	Water	6010C	506217

Analysis Batch: 506803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	6020A	506205
MB 480-506205/1-A	Method Blank	Total/NA	Water	6020A	506205
LCS 480-506205/2-A	Lab Control Sample	Total/NA	Water	6020A	506205
480-163035-1 MS	8BCWD	Total/NA	Ground Water	6020A	506205
480-163035-1 MSD	8BCWD	Total/NA	Ground Water	6020A	506205

Analysis Batch: 506992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Dissolved	Ground Water	6020A	506307
MB 480-506307/1-A	Method Blank	Total/NA	Water	6020A	506307

Metals (Continued)

Analysis Batch: 506992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-506307/2-A	Lab Control Sample	Total/NA	Water	6020A	506307

Analysis Batch: 507592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Dissolved	Ground Water	6010C	506308
MB 480-506308/1-A	Method Blank	Total/NA	Water	6010C	506308
LCS 480-506308/2-A	Lab Control Sample	Total/NA	Water	6010C	506308

General Chemistry

Analysis Batch: 506081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	353.2	

Prep Batch: 506735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	Distill/Ammonia	
MB 480-506735/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-506735/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-163035-1 MS	8BCWD	Total/NA	Ground Water	Distill/Ammonia	

Analysis Batch: 506865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	SM 2540C	
MB 480-506865/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-506865/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	350.1	506735
MB 480-506735/1-A	Method Blank	Total/NA	Water	350.1	506735
LCS 480-506735/2-A	Lab Control Sample	Total/NA	Water	350.1	506735
480-163035-1 MS	8BCWD	Total/NA	Ground Water	350.1	506735

Analysis Batch: 506871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	SM 5310C	
MB 480-506871/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-506871/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 507954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	310.2	
MB 480-507954/53	Method Blank	Total/NA	Water	310.2	
MB 480-507954/67	Method Blank	Total/NA	Water	310.2	
LCS 480-507954/54	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-507954/68	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 507957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	9251	

General Chemistry (Continued)

Analysis Batch: 507957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-507957/102	Method Blank	Total/NA	Water	9251	
MB 480-507957/180	Method Blank	Total/NA	Water	9251	
MB 480-507957/84	Method Blank	Total/NA	Water	9251	
LCS 480-507957/101	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/179	Lab Control Sample	Total/NA	Water	9251	
LCS 480-507957/83	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 507958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	9038	
MB 480-507958/170	Method Blank	Total/NA	Water	9038	
MB 480-507958/215	Method Blank	Total/NA	Water	9038	
LCS 480-507958/171	Lab Control Sample	Total/NA	Water	9038	
LCS 480-507958/216	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 508243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	410.4	
MB 480-508243/28	Method Blank	Total/NA	Water	410.4	
LCS 480-508243/29	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 509061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	SM 1030E	

Analysis Batch: 509931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	120.1	
LCS 480-509931/3	Lab Control Sample	Total/NA	Water	120.1	

Field Service / Mobile Lab

Analysis Batch: 509046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163035-1	8BCWD	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: 8BCWD

Lab Sample ID: 480-163035-1

Date Collected: 11/20/19 11:45

Matrix: Ground Water

Date Received: 11/21/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	506006	11/22/19 01:36	RJF	TAL BUF
Dissolved	Prep	3005A			506308	11/25/19 08:15	JLC	TAL BUF
Dissolved	Analysis	6010C		1	507592	11/30/19 11:56	AMH	TAL BUF
Total/NA	Prep	3005A			506217	11/23/19 10:34	NSW	TAL BUF
Total/NA	Analysis	6010C		1	506771	11/26/19 07:56	LMH	TAL BUF
Dissolved	Prep	3020A			506307	11/25/19 07:35	JLC	TAL BUF
Dissolved	Analysis	6020A		1	506992	11/26/19 21:39	KMP	TAL BUF
Total/NA	Prep	3020A			506205	11/22/19 12:00	JLC	TAL BUF
Total/NA	Analysis	6020A		1	506803	11/23/19 17:23	KMP	TAL BUF
Total/NA	Analysis	120.1		1	509931	12/14/19 14:33	AEF	TAL BUF
Total/NA	Analysis	310.2		5	507954	12/03/19 19:02	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			506735	11/26/19 09:00	CLT	TAL BUF
Total/NA	Analysis	350.1		5	506870	11/26/19 13:56	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506081	11/21/19 22:47	BEF	TAL BUF
Total/NA	Analysis	410.4		1	508243	12/04/19 18:52	CSS	TAL BUF
Total/NA	Analysis	9038		1	507958	12/03/19 19:50	SRW	TAL BUF
Total/NA	Analysis	9251		2	507957	12/03/19 19:50	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	509061	12/10/19 12:33	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	506865	11/26/19 13:50	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	506871	11/22/19 22:16	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	509046	11/20/19 11:45	FLD	TAL BUF

Client Sample ID: TB

Lab Sample ID: 480-163035-2

Date Collected: 11/20/19 00:00

Matrix: WQ

Date Received: 11/21/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	506006	11/22/19 02:01	RJF	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Ground Water	Sulfate
9251		Ground Water	Chloride
Field Sampling		Ground Water	Field EH/ORP
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Temperature
Field Sampling		Ground Water	Turbidity
SM 1030E		Ground Water	Anion/Cation Balance
SM 1030E		Ground Water	Calculated TDS
SM 1030E		Ground Water	TDS Ratio
SM 1030E		Ground Water	TDS to Conductivity Ratio

Method Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL BUF
120.1	Conductivity, Specific Conductance	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3020A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-163035-1	8BCWD	Ground Water	11/20/19 11:45	11/21/19 09:45	
480-163035-2	TB	WQ	11/20/19 00:00	11/21/19 09:45	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-163035-1
Project/Site: Crossroads ME-Wick Drain

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Ground Water	Total/NA	mg/L	0.0090	0.015
6010C	Arsenic	Ground Water	Dissolved	mg/L	0.010	0.015
6010C	Calcium	Ground Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Ground Water	Total/NA	mg/L	0.030	0.05
6010C	Iron	Ground Water	Dissolved	mg/L	0.030	0.05
6010C	Potassium	Ground Water	Dissolved	mg/L	0.20	0.50
6010C	Sodium	Ground Water	Total/NA	mg/L	0.40	1.0
6010C	Sodium	Ground Water	Dissolved	mg/L	0.40	1.0
6020A	Silver	Ground Water	Total/NA	mg/L	0.00020	0.0005
6020A	Silver	Ground Water	Dissolved	mg/L	0.00020	0.0005
9251	Chloride	Ground Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Ground Water	Total/NA	mg/L	5.0	10

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: AMAN	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136701-25871.1
Client Contact: Nick Adams	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Katahdin Analytical Services				Job #:

Address: PO BOX 540 600 Technology Way	Due Date Requested:
City: Scarborough	TAT Requested (days):
State, Zip: ME, 04074	
Phone:	PO #: Purchase Order Requested
Email: nadams@katahdinlab.com	WO #:
Project Name: Crossroads ME/ Event Desc: Wick Drain's - (4,8,11)	Project #: 48003284
Site: Maine	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Volatiles	350.1, 410.4	6010C, 6020A	Cation_Anion - Cation Anion Balance	8260C - Volatiles	5310C - Total Organic Carbon	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	120.1, 353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	D	N	A	A	N	N	N	N		
TB *				Water														*TB are
8BCWD	11/20/19	1145	G	Water	N		3	1	1/1	1		2	1	X	2	1		included
~~W12-4B~~	↓	1412	↓	↓				1	1/1	1		2	1	X	2	1		w/ 8BCWD
~~W12-3E~~	↓	1255	↓	↓				1	1/1	1		2	1	X	2	1		

480-163035 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/20/19 1800	KAS		11/21/19 0945	NAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1°

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: 8BCWD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —

Sampling Device: D

X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: —

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): ____ (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/21/19	6.21	998	17.1	4.8	3.2	-6.05	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Normal Odor: None Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: calm Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: W12-26 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/20/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: B

Sampling Device: B

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
2689.1 (ft/msl)	12.71 (ft)	256.20 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
10.06 (ft)	2.41 (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Calm Outlook: cloudy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Site is dry; static below intake depth

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/20/19	Katrina Aman	Katrina	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163035-1

Login Number: 163035

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Hulbert, Michael J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-163278-1
Client Project/Site: Crossroads ME-SA 8ALC, BLC, CLC
Sampling Event: Semi-Annual (8/ALC,BLC,CLC) (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
12/31/2019 1:45:14 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
BL	Compound is found in the associated method blank as well as inorganic sample.
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-163278-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-163278-1

Comments
No additional comments.

Receipt
The samples were received on 11/26/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 8ALC (480-163278-1), 8BLC (480-163278-2) and 8CLC (480-163278-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: 8ALC (480-163278-1), 8BLC (480-163278-2) and 8CLC (480-163278-3). Sample pH is 7.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The method blank for preparation batch 480-506895 and analytical batch 480-507581 contained Total Sodium above the reporting limit (RL). Associated sample(s) 8ALC (480-163278-1), 8BLC (480-163278-2) and 8CLC (480-163278-3) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010C: The Calcium, Iron and Manganese results reported for the following sample do not concur with results previously reported for this site: 8CLC (480-163278-3). Reanalysis was performed, and the result(s) confirmed.

Methods 200.8, 6020A, 6020B: The interference check standard solution (ICSA) associated with batch 680-599333 had results for one or more elements at a level greater than 2 times the limit of detection (LOD). The vendor acknowledges that these elements are trace impurities in the ICSA standard. These results are not indicative of a matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 353.2: The Nitrate and Nitrite results reported for the following sample do not concur with results previously reported for this site: 8ALC (480-163278-1). Reanalysis was performed, and the result(s) confirmed.

Method Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-163278-1), 8BLC (480-163278-2) and 8CLC (480-163278-3). The reporting limits (RLs) have been adjusted proportionately.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8ALC (480-163278-1), 8BLC (480-163278-2) and 8CLC (480-163278-3). The reporting limits (RLs) have been adjusted proportionately.

Methods 9038, D516-90, 02: The results reported for the following sample do not concur with results previously reported for this site: 8CLC (480-163278-3). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Client Sample ID: 8ALC — Lab Sample ID: 480-163278-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.17		0.0090		mg/L	1		6010C	Total/NA
Barium	0.71		0.0050		mg/L	1		6010C	Total/NA
Calcium	99		0.15		mg/L	1		6010C	Total/NA
Chromium	0.11		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.022		0.0040		mg/L	1		6010C	Total/NA
Iron	7.1		0.030		mg/L	1		6010C	Total/NA
Magnesium	130		0.24		mg/L	1		6010C	Total/NA
Manganese	0.42		0.010		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Potassium	1100		5.0		mg/L	5		6010C	Total/NA
Sodium	1700	BL	2.0		mg/L	5		6010C	Total/NA
Vanadium	0.032		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	4300		450		mg/L	45		310.2	Total/NA
Ammonia as N	700		100		mg/L	1		350.1	Total/NA
Nitrate	1.2		0.050		mg/L as N	1		353.2	Total/NA
Chemical Oxygen Demand	1000		100		mg/L	10		410.4	Total/NA
Chloride	3700		40		mg/L	80		9251	Total/NA
Anion/Cation Balance	-23				%	1		SM 1030E	Total/NA
Calculated TDS	9300				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.54				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.28				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	5000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	28		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	300		4.0		mg/L	4		SM 5310C	Total/NA
Turbidity	13.4				NTU	1		Field Sampling	Total/NA
Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.38				SU	1		Field Sampling	Total/NA
Specific Conductance	18052				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-71.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8BLC — Lab Sample ID: 480-163278-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.20		0.0090		mg/L	1		6010C	Total/NA
Barium	0.65		0.0050		mg/L	1		6010C	Total/NA
Calcium	58		0.15		mg/L	1		6010C	Total/NA
Chromium	0.25		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.024		0.0040		mg/L	1		6010C	Total/NA
Iron	4.4		0.030		mg/L	1		6010C	Total/NA
Magnesium	98		0.24		mg/L	1		6010C	Total/NA
Manganese	0.38		0.010		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Potassium	1400		5.0		mg/L	5		6010C	Total/NA
Sodium	2100	BL	2.0		mg/L	5		6010C	Total/NA
Vanadium	0.044		0.025		mg/L	1		6010C	Total/NA
Alkalinity, Total	6400		700		mg/L	70		310.2	Total/NA
Ammonia as N	1100		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	1600		200		mg/L	20		410.4	Total/NA
Chloride	4200		45		mg/L	90		9251	Total/NA
Anion/Cation Balance	-28				%	1		SM 1030E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8BLC (Continued)

Lab Sample ID: 480-163278-2

Analyte	Result	Qualifier	NONE		Unit	Dil Fac	D	Method	Prep Type
Calculated TDS	12000				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.64				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.34				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	7500		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	20		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	470		10		mg/L	10		SM 5310C	Total/NA
Turbidity	3.4				NTU	1		Field Sampling	Total/NA
Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Field pH	7.66				SU	1		Field Sampling	Total/NA
Specific Conductance	22327				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-110.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.6				mg/L	1		Field Sampling	Total/NA

Client Sample ID: 8CLC

Lab Sample ID: 480-163278-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.23		0.0090		mg/L	1		6010C	Total/NA
Barium	0.48		0.0050		mg/L	1		6010C	Total/NA
Calcium	140		0.15		mg/L	1		6010C	Total/NA
Chromium	0.72		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.023		0.0040		mg/L	1		6010C	Total/NA
Copper	0.028		0.025		mg/L	1		6010C	Total/NA
Iron	14		0.030		mg/L	1		6010C	Total/NA
Lead	0.013		0.0050		mg/L	1		6010C	Total/NA
Magnesium	91		0.24		mg/L	1		6010C	Total/NA
Manganese	4.2		0.010		mg/L	1		6010C	Total/NA
Nickel	0.21		0.040		mg/L	1		6010C	Total/NA
Potassium	1400		5.0		mg/L	5		6010C	Total/NA
Sodium	1400	BL	2.0		mg/L	5		6010C	Total/NA
Vanadium	0.078		0.025		mg/L	1		6010C	Total/NA
Zinc	0.071		0.020		mg/L	1		6010C	Total/NA
Aluminum	0.80		0.25		mg/L	1		6020A	Total/NA
Alkalinity, Total	7400		800		mg/L	80		310.2	Total/NA
Ammonia as N	1200		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	2400		200		mg/L	20		410.4	Total/NA
Sulfate	18		5.0		mg/L	1		9038	Total/NA
Chloride	2100		23		mg/L	45		9251	Total/NA
Anion/Cation Balance	-30				%	1		SM 1030E	Total/NA
Calculated TDS	9600				mg/L	1		SM 1030E	Total/NA
TDS Ratio	0.73				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.38				NONE	1		SM 1030E	Total/NA
Total Dissolved Solids	7000		50		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	680		10		mg/L	10		SM 5310C	Total/NA
Turbidity	12.5				NTU	1		Field Sampling	Total/NA
Temperature	19.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.54				SU	1		Field Sampling	Total/NA
Specific Conductance	17782				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-127.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.8				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Client Sample ID: TB

Lab Sample ID: 480-163278-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8ALC

Date Collected: 11/25/19 13:00
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	20		ug/L			11/27/19 02:45	20
1,1,2,2-Tetrachloroethane	ND	U	20		ug/L			11/27/19 02:45	20
1,1,2-Trichloroethane	ND	U	20		ug/L			11/27/19 02:45	20
1,1-Dichloroethane	ND	U	20		ug/L			11/27/19 02:45	20
1,1-Dichloroethene	ND	U	20		ug/L			11/27/19 02:45	20
1,2-Dichloroethane	ND	U	20		ug/L			11/27/19 02:45	20
1,2-Dichloropropane	ND	U	20		ug/L			11/27/19 02:45	20
2-Hexanone	ND	U	100		ug/L			11/27/19 02:45	20
2-Butanone	ND	U	200		ug/L			11/27/19 02:45	20
4-Methyl-2-pentanone	ND	U	100		ug/L			11/27/19 02:45	20
Acetone	ND	U	200		ug/L			11/27/19 02:45	20
Benzene	ND	U	20		ug/L			11/27/19 02:45	20
Bromodichloromethane	ND	U	20		ug/L			11/27/19 02:45	20
Bromoform	ND	U	20		ug/L			11/27/19 02:45	20
Bromomethane	ND	U	20		ug/L			11/27/19 02:45	20
Carbon disulfide	ND	U	20		ug/L			11/27/19 02:45	20
Carbon tetrachloride	ND	U	20		ug/L			11/27/19 02:45	20
Chlorobenzene	ND	U	20		ug/L			11/27/19 02:45	20
Dibromochloromethane	ND	U	20		ug/L			11/27/19 02:45	20
Chloroethane	ND	U	20		ug/L			11/27/19 02:45	20
Chloroform	ND	U	20		ug/L			11/27/19 02:45	20
Chloromethane	ND	U	20		ug/L			11/27/19 02:45	20
cis-1,2-Dichloroethene	ND	U	20		ug/L			11/27/19 02:45	20
cis-1,3-Dichloropropene	ND	U	20		ug/L			11/27/19 02:45	20
Ethylbenzene	ND	U	20		ug/L			11/27/19 02:45	20
Methylene Chloride	ND	U	20		ug/L			11/27/19 02:45	20
Styrene	ND	U	20		ug/L			11/27/19 02:45	20
Tetrachloroethene	ND	U	20		ug/L			11/27/19 02:45	20
Toluene	ND	U	20		ug/L			11/27/19 02:45	20
trans-1,2-Dichloroethene	ND	U	20		ug/L			11/27/19 02:45	20
trans-1,3-Dichloropropene	ND	U	20		ug/L			11/27/19 02:45	20
Trichloroethene	ND	U	20		ug/L			11/27/19 02:45	20
Vinyl acetate	ND	U	100		ug/L			11/27/19 02:45	20
Vinyl chloride	ND	U	20		ug/L			11/27/19 02:45	20
Xylenes, Total	ND	U	40		ug/L			11/27/19 02:45	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*11/27/19 02:45*	*20*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/27/19 02:45*	*20*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/27/19 02:45*	*20*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/27/19 02:45*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.17**		0.0090		mg/L		11/27/19 09:00	11/30/19 20:44	1
Barium	**0.71**		0.0050		mg/L		11/27/19 09:00	11/30/19 20:44	1
Cadmium	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 20:44	1
Calcium	**99**		0.15		mg/L		11/27/19 09:00	11/30/19 20:44	1
Chromium	**0.11**		0.010		mg/L		11/27/19 09:00	11/30/19 20:44	1
Cobalt	**0.022**		0.0040		mg/L		11/27/19 09:00	11/30/19 20:44	1

Client Sample ID: 8ALC

Date Collected: 11/25/19 13:00
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-1

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		11/27/19 09:00	11/30/19 20:44	1
Iron	**7.1**		0.030		mg/L		11/27/19 09:00	11/30/19 20:44	1
Lead	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 20:44	1
Magnesium	**130**		0.24		mg/L		11/27/19 09:00	11/30/19 20:44	1
Manganese	**0.42**		0.010		mg/L		11/27/19 09:00	11/30/19 20:44	1
Nickel	**0.18**		0.040		mg/L		11/27/19 09:00	11/30/19 20:44	1
Potassium	**1100**		5.0		mg/L		11/27/19 09:00	12/02/19 14:09	5
Sodium	**1700**	**BL**	2.0		mg/L		11/27/19 09:00	12/02/19 14:09	5
Vanadium	**0.032**		0.025		mg/L		11/27/19 09:00	11/30/19 20:44	1
Zinc	ND	U	0.020		mg/L		11/27/19 09:00	11/30/19 20:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/04/19 13:20	12/05/19 20:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		12/15/19 13:19	12/15/19 16:41	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-23**				%			12/31/19 10:32	1
Calculated TDS	**9300**				mg/L			12/31/19 10:32	1
TDS Ratio	**0.54**				NONE			12/31/19 10:32	1
TDS to Conductivity Ratio	**0.28**				NONE			12/31/19 10:32	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**4300**		450		mg/L			12/05/19 14:49	45
Ammonia as N	**700**		100		mg/L		11/27/19 06:30	11/27/19 10:38	1
Nitrate	**1.2**		0.050		mg/L as N			11/26/19 17:22	1
Chemical Oxygen Demand	**1000**		100		mg/L			12/03/19 13:35	10
Sulfate	ND	U	5.0		mg/L			12/05/19 17:09	1
Chloride	**3700**		40		mg/L			12/05/19 17:30	80
Total Dissolved Solids	**5000**		50		mg/L			12/02/19 12:13	1
Total Organic Carbon	**300**		4.0		mg/L			11/29/19 16:59	4

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**28**		4.0		mg/L			11/26/19 15:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**13.4**				NTU			11/25/19 13:00	1
Temperature	**17.1**				Degrees C			11/25/19 13:00	1
Field pH	**7.38**				SU			11/25/19 13:00	1
Specific Conductance	**18052**				umhos/cm			11/25/19 13:00	1
Field EH/ORP	**-71.2**				millivolts			11/25/19 13:00	1
Oxygen, Dissolved	**3.6**				mg/L			11/25/19 13:00	1

Client Sample ID: 8BLC

Date Collected: 11/25/19 13:40
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	40		ug/L			11/27/19 03:09	40
1,1,2,2-Tetrachloroethane	ND	U	40		ug/L			11/27/19 03:09	40
1,1,2-Trichloroethane	ND	U	40		ug/L			11/27/19 03:09	40
1,1-Dichloroethane	ND	U	40		ug/L			11/27/19 03:09	40
1,1-Dichloroethene	ND	U	40		ug/L			11/27/19 03:09	40
1,2-Dichloroethane	ND	U	40		ug/L			11/27/19 03:09	40
1,2-Dichloropropane	ND	U	40		ug/L			11/27/19 03:09	40
2-Hexanone	ND	U	200		ug/L			11/27/19 03:09	40
2-Butanone	ND	U	400		ug/L			11/27/19 03:09	40
4-Methyl-2-pentanone	ND	U	200		ug/L			11/27/19 03:09	40
Acetone	ND	U	400		ug/L			11/27/19 03:09	40
Benzene	ND	U	40		ug/L			11/27/19 03:09	40
Bromodichloromethane	ND	U	40		ug/L			11/27/19 03:09	40
Bromoform	ND	U	40		ug/L			11/27/19 03:09	40
Bromomethane	ND	U	40		ug/L			11/27/19 03:09	40
Carbon disulfide	ND	U	40		ug/L			11/27/19 03:09	40
Carbon tetrachloride	ND	U	40		ug/L			11/27/19 03:09	40
Chlorobenzene	ND	U	40		ug/L			11/27/19 03:09	40
Dibromochloromethane	ND	U	40		ug/L			11/27/19 03:09	40
Chloroethane	ND	U	40		ug/L			11/27/19 03:09	40
Chloroform	ND	U	40		ug/L			11/27/19 03:09	40
Chloromethane	ND	U	40		ug/L			11/27/19 03:09	40
cis-1,2-Dichloroethene	ND	U	40		ug/L			11/27/19 03:09	40
cis-1,3-Dichloropropene	ND	U	40		ug/L			11/27/19 03:09	40
Ethylbenzene	ND	U	40		ug/L			11/27/19 03:09	40
Methylene Chloride	ND	U	40		ug/L			11/27/19 03:09	40
Styrene	ND	U	40		ug/L			11/27/19 03:09	40
Tetrachloroethene	ND	U	40		ug/L			11/27/19 03:09	40
Toluene	ND	U	40		ug/L			11/27/19 03:09	40
trans-1,2-Dichloroethene	ND	U	40		ug/L			11/27/19 03:09	40
trans-1,3-Dichloropropene	ND	U	40		ug/L			11/27/19 03:09	40
Trichloroethene	ND	U	40		ug/L			11/27/19 03:09	40
Vinyl acetate	ND	U	200		ug/L			11/27/19 03:09	40
Vinyl chloride	ND	U	40		ug/L			11/27/19 03:09	40
Xylenes, Total	ND	U	80		ug/L			11/27/19 03:09	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/27/19 03:09*	*40*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/27/19 03:09*	*40*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*11/27/19 03:09*	*40*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*11/27/19 03:09*	*40*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.20**		0.0090		mg/L		11/27/19 09:00	11/30/19 20:47	1
Barium	**0.65**		0.0050		mg/L		11/27/19 09:00	11/30/19 20:47	1
Cadmium	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 20:47	1
Calcium	**58**		0.15		mg/L		11/27/19 09:00	11/30/19 20:47	1
Chromium	**0.25**		0.010		mg/L		11/27/19 09:00	11/30/19 20:47	1
Cobalt	**0.024**		0.0040		mg/L		11/27/19 09:00	11/30/19 20:47	1

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Client Sample ID: 8BLC

Date Collected: 11/25/19 13:40
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-2

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND	U	0.025		mg/L		11/27/19 09:00	11/30/19 20:47	1
Iron	**4.4**		0.030		mg/L		11/27/19 09:00	11/30/19 20:47	1
Lead	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 20:47	1
Magnesium	**98**		0.24		mg/L		11/27/19 09:00	11/30/19 20:47	1
Manganese	**0.38**		0.010		mg/L		11/27/19 09:00	11/30/19 20:47	1
Nickel	**0.18**		0.040		mg/L		11/27/19 09:00	11/30/19 20:47	1
Potassium	**1400**		5.0		mg/L		11/27/19 09:00	12/02/19 14:13	5
Sodium	**2100**	**BL**	2.0		mg/L		11/27/19 09:00	12/02/19 14:13	5
Vanadium	**0.044**		0.025		mg/L		11/27/19 09:00	11/30/19 20:47	1
Zinc	ND	U	0.020		mg/L		11/27/19 09:00	11/30/19 20:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/04/19 13:20	12/05/19 20:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		12/15/19 13:19	12/15/19 16:42	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**-28**				%			12/31/19 10:32	1
Calculated TDS	**12000**				mg/L			12/31/19 10:32	1
TDS Ratio	**0.64**				NONE			12/31/19 10:32	1
TDS to Conductivity Ratio	**0.34**				NONE			12/31/19 10:32	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**6400**		700		mg/L			12/05/19 14:49	70
Ammonia as N	**1100**		200		mg/L		11/27/19 06:30	11/27/19 10:47	2
Nitrate	ND	U	0.050		mg/L as N			11/26/19 16:19	1
Chemical Oxygen Demand	**1600**		200		mg/L			12/03/19 13:35	20
Sulfate	ND	U	5.0		mg/L			12/05/19 17:09	1
Chloride	**4200**		45		mg/L			12/05/19 17:30	90
Total Dissolved Solids	**7500**		50		mg/L			12/02/19 12:13	1
Total Organic Carbon	**470**		10		mg/L			11/29/19 17:15	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**20**		4.0		mg/L			11/26/19 15:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**3.4**				NTU			11/25/19 13:40	1
Temperature	**21.4**				Degrees C			11/25/19 13:40	1
Field pH	**7.66**				SU			11/25/19 13:40	1
Specific Conductance	**22327**				umhos/cm			11/25/19 13:40	1
Field EH/ORP	**-110.3**				millivolts			11/25/19 13:40	1
Oxygen, Dissolved	**1.6**				mg/L			11/25/19 13:40	1

Client Sample ID: 8CLC

Date Collected: 11/25/19 14:15
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	80		ug/L			11/27/19 03:33	80
1,1,2,2-Tetrachloroethane	ND	U	80		ug/L			11/27/19 03:33	80
1,1,2-Trichloroethane	ND	U	80		ug/L			11/27/19 03:33	80
1,1-Dichloroethane	ND	U	80		ug/L			11/27/19 03:33	80
1,1-Dichloroethene	ND	U	80		ug/L			11/27/19 03:33	80
1,2-Dichloroethane	ND	U	80		ug/L			11/27/19 03:33	80
1,2-Dichloropropane	ND	U	80		ug/L			11/27/19 03:33	80
2-Hexanone	ND	U	400		ug/L			11/27/19 03:33	80
2-Butanone	ND	U	800		ug/L			11/27/19 03:33	80
4-Methyl-2-pentanone	ND	U	400		ug/L			11/27/19 03:33	80
Acetone	ND	U	800		ug/L			11/27/19 03:33	80
Benzene	ND	U	80		ug/L			11/27/19 03:33	80
Bromodichloromethane	ND	U	80		ug/L			11/27/19 03:33	80
Bromoform	ND	U	80		ug/L			11/27/19 03:33	80
Bromomethane	ND	U	80		ug/L			11/27/19 03:33	80
Carbon disulfide	ND	U	80		ug/L			11/27/19 03:33	80
Carbon tetrachloride	ND	U	80		ug/L			11/27/19 03:33	80
Chlorobenzene	ND	U	80		ug/L			11/27/19 03:33	80
Dibromochloromethane	ND	U	80		ug/L			11/27/19 03:33	80
Chloroethane	ND	U	80		ug/L			11/27/19 03:33	80
Chloroform	ND	U	80		ug/L			11/27/19 03:33	80
Chloromethane	ND	U	80		ug/L			11/27/19 03:33	80
cis-1,2-Dichloroethene	ND	U	80		ug/L			11/27/19 03:33	80
cis-1,3-Dichloropropene	ND	U	80		ug/L			11/27/19 03:33	80
Ethylbenzene	ND	U	80		ug/L			11/27/19 03:33	80
Methylene Chloride	ND	U	80		ug/L			11/27/19 03:33	80
Styrene	ND	U	80		ug/L			11/27/19 03:33	80
Tetrachloroethene	ND	U	80		ug/L			11/27/19 03:33	80
Toluene	ND	U	80		ug/L			11/27/19 03:33	80
trans-1,2-Dichloroethene	ND	U	80		ug/L			11/27/19 03:33	80
trans-1,3-Dichloropropene	ND	U	80		ug/L			11/27/19 03:33	80
Trichloroethene	ND	U	80		ug/L			11/27/19 03:33	80
Vinyl acetate	ND	U	400		ug/L			11/27/19 03:33	80
Vinyl chloride	ND	U	80		ug/L			11/27/19 03:33	80
Xylenes, Total	ND	U	160		ug/L			11/27/19 03:33	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*11/27/19 03:33*	*80*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/27/19 03:33*	*80*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/27/19 03:33*	*80*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/27/19 03:33*	*80*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.23**		0.0090		mg/L		11/27/19 09:00	11/30/19 20:51	1
Barium	**0.48**		0.0050		mg/L		11/27/19 09:00	11/30/19 20:51	1
Cadmium	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 20:51	1
Calcium	**140**		0.15		mg/L		11/27/19 09:00	11/30/19 20:51	1
Chromium	**0.72**		0.010		mg/L		11/27/19 09:00	11/30/19 20:51	1
Cobalt	**0.023**		0.0040		mg/L		11/27/19 09:00	11/30/19 20:51	1

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Client Sample ID: 8CLC

Date Collected: 11/25/19 14:15
Date Received: 11/26/19 10:00

Lab Sample ID: 480-163278-3

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.028		0.025		mg/L		11/27/19 09:00	11/30/19 20:51	1
Iron	14		0.030		mg/L		11/27/19 09:00	11/30/19 20:51	1
Lead	0.013		0.0050		mg/L		11/27/19 09:00	11/30/19 20:51	1
Magnesium	91		0.24		mg/L		11/27/19 09:00	11/30/19 20:51	1
Manganese	4.2		0.010		mg/L		11/27/19 09:00	11/30/19 20:51	1
Nickel	0.21		0.040		mg/L		11/27/19 09:00	11/30/19 20:51	1
Potassium	1400		5.0		mg/L		11/27/19 09:00	12/02/19 14:17	5
Sodium	1400	BL	2.0		mg/L		11/27/19 09:00	12/02/19 14:17	5
Vanadium	0.078		0.025		mg/L		11/27/19 09:00	11/30/19 20:51	1
Zinc	0.071		0.020		mg/L		11/27/19 09:00	11/30/19 20:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.80		0.25		mg/L		12/04/19 13:20	12/05/19 20:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020		mg/L		12/15/19 13:19	12/15/19 16:43	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-30				%			12/31/19 10:32	1
Calculated TDS	9600				mg/L			12/31/19 10:32	1
TDS Ratio	0.73				NONE			12/31/19 10:32	1
TDS to Conductivity Ratio	0.38				NONE			12/31/19 10:32	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	7400		800		mg/L			12/05/19 15:29	80
Ammonia as N	1200		200		mg/L		11/27/19 06:30	11/27/19 10:48	2
Nitrate	ND	U	0.050		mg/L as N			11/26/19 17:23	1
Chemical Oxygen Demand	2400		200		mg/L			12/03/19 13:35	20
Sulfate	18		5.0		mg/L			12/06/19 20:34	1
Chloride	2100		23		mg/L			12/05/19 17:29	45
Total Dissolved Solids	7000		50		mg/L			12/02/19 12:13	1
Total Organic Carbon	680		10		mg/L			11/29/19 17:30	10

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	18		4.0		mg/L			11/26/19 15:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	12.5				NTU			11/25/19 14:15	1
Temperature	19.1				Degrees C			11/25/19 14:15	1
Field pH	7.54				SU			11/25/19 14:15	1
Specific Conductance	17782				umhos/cm			11/25/19 14:15	1
Field EH/ORP	-127.7				millivolts			11/25/19 14:15	1
Oxygen, Dissolved	0.8				mg/L			11/25/19 14:15	1

Client Sample ID: TB
Lab Sample ID: 480-163278-4

Date Collected: 11/25/19 00:00
Matrix: Water
Date Received: 11/26/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/27/19 03:57	1
2-Hexanone	ND	U	5.0		ug/L			11/27/19 03:57	1
2-Butanone	ND	U	10		ug/L			11/27/19 03:57	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/27/19 03:57	1
Acetone	ND	U	10		ug/L			11/27/19 03:57	1
Benzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromodichloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromoform	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromomethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Carbon disulfide	ND	U	1.0		ug/L			11/27/19 03:57	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Chlorobenzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Dibromochloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloroform	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/27/19 03:57	1
Ethylbenzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Methylene Chloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Styrene	ND	U	1.0		ug/L			11/27/19 03:57	1
Tetrachloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
Toluene	ND	U	1.0		ug/L			11/27/19 03:57	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/27/19 03:57	1
Trichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
Vinyl acetate	ND	U	5.0		ug/L			11/27/19 03:57	1
Vinyl chloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Xylenes, Total	ND	U	2.0		ug/L			11/27/19 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/27/19 03:57*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/27/19 03:57*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/27/19 03:57*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/27/19 03:57*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
480-163278-1	8ALC	96	93	93	98
480-163278-2	8BLC	100	89	94	94
480-163278-3	8CLC	103	91	95	100
480-163278-4	TB	98	91	93	97
LCS 480-506958/4	Lab Control Sample	90	89	99	93
MB 480-506958/6	Method Blank	98	91	97	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-506958/6
Matrix: Water
Analysis Batch: 506958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/26/19 22:03	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/26/19 22:03	1
2-Hexanone	ND	U	5.0		ug/L			11/26/19 22:03	1
2-Butanone	ND	U	10		ug/L			11/26/19 22:03	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/26/19 22:03	1
Acetone	ND	U	10		ug/L			11/26/19 22:03	1
Benzene	ND	U	1.0		ug/L			11/26/19 22:03	1
Bromodichloromethane	ND	U	1.0		ug/L			11/26/19 22:03	1
Bromoform	ND	U	1.0		ug/L			11/26/19 22:03	1
Bromomethane	ND	U	1.0		ug/L			11/26/19 22:03	1
Carbon disulfide	ND	U	1.0		ug/L			11/26/19 22:03	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/26/19 22:03	1
Chlorobenzene	ND	U	1.0		ug/L			11/26/19 22:03	1
Dibromochloromethane	ND	U	1.0		ug/L			11/26/19 22:03	1
Chloroethane	ND	U	1.0		ug/L			11/26/19 22:03	1
Chloroform	ND	U	1.0		ug/L			11/26/19 22:03	1
Chloromethane	ND	U	1.0		ug/L			11/26/19 22:03	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/26/19 22:03	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/26/19 22:03	1
Ethylbenzene	ND	U	1.0		ug/L			11/26/19 22:03	1
Methylene Chloride	ND	U	1.0		ug/L			11/26/19 22:03	1
Styrene	ND	U	1.0		ug/L			11/26/19 22:03	1
Tetrachloroethene	ND	U	1.0		ug/L			11/26/19 22:03	1
Toluene	ND	U	1.0		ug/L			11/26/19 22:03	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/26/19 22:03	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/26/19 22:03	1
Trichloroethene	ND	U	1.0		ug/L			11/26/19 22:03	1
Vinyl acetate	ND	U	5.0		ug/L			11/26/19 22:03	1
Vinyl chloride	ND	U	1.0		ug/L			11/26/19 22:03	1
Xylenes, Total	ND	U	2.0		ug/L			11/26/19 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/26/19 22:03*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/26/19 22:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/26/19 22:03*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/26/19 22:03*	*1*

Lab Sample ID: LCS 480-506958/4
Matrix: Water
Analysis Batch: 506958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			25.0	24.4		ug/L		98	73 - 126		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-506958/4
Matrix: Water
Analysis Batch: 506958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	76 - 122
1,1-Dichloroethane	25.0	22.3		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	23.4		ug/L		94	66 - 127
1,2-Dichloroethane	25.0	22.0		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	23.4		ug/L		94	76 - 120
2-Hexanone	125	130		ug/L		104	65 - 127
2-Butanone	125	131		ug/L		105	57 - 140
4-Methyl-2-pentanone	125	118		ug/L		95	71 - 125
Acetone	125	125		ug/L		100	56 - 142
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromodichloromethane	25.0	25.3		ug/L		101	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	20.9		ug/L		83	55 - 144
Carbon disulfide	25.0	24.1		ug/L		97	59 - 134
Carbon tetrachloride	25.0	25.9		ug/L		104	72 - 134
Chlorobenzene	25.0	22.4		ug/L		90	80 - 120
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	20.9		ug/L		83	69 - 136
Chloroform	25.0	24.0		ug/L		96	73 - 127
Chloromethane	25.0	19.4		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	74 - 124
Ethylbenzene	25.0	23.4		ug/L		94	77 - 123
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
Styrene	25.0	23.8		ug/L		95	80 - 120
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	80 - 120
Trichloroethene	25.0	23.2		ug/L		93	74 - 123
Vinyl acetate	50.0	54.9		ug/L		110	50 - 144
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133
Xylenes, Total	50.0	46.4		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
Toluene-d8 (Surr)	*89*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-506895/1-A
Matrix: Water
Analysis Batch: 507581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506895

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.0090		mg/L		11/27/19 09:00	11/30/19 18:48	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-506895/1-A
Matrix: Water
Analysis Batch: 507581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506895

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 18:48	1
Cadmium	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 18:48	1
Calcium	ND	U	0.15		mg/L		11/27/19 09:00	11/30/19 18:48	1
Chromium	ND	U	0.010		mg/L		11/27/19 09:00	11/30/19 18:48	1
Cobalt	ND	U	0.0040		mg/L		11/27/19 09:00	11/30/19 18:48	1
Copper	ND	U	0.025		mg/L		11/27/19 09:00	11/30/19 18:48	1
Iron	ND	U	0.030		mg/L		11/27/19 09:00	11/30/19 18:48	1
Lead	ND	U	0.0050		mg/L		11/27/19 09:00	11/30/19 18:48	1
Magnesium	ND	U	0.24		mg/L		11/27/19 09:00	11/30/19 18:48	1
Manganese	ND	U	0.010		mg/L		11/27/19 09:00	11/30/19 18:48	1
Nickel	ND	U	0.040		mg/L		11/27/19 09:00	11/30/19 18:48	1
Potassium	ND	U	1.0		mg/L		11/27/19 09:00	11/30/19 18:48	1
Sodium	0.508		0.40		mg/L		11/27/19 09:00	11/30/19 18:48	1
Vanadium	ND	U	0.025		mg/L		11/27/19 09:00	11/30/19 18:48	1
Zinc	ND	U	0.020		mg/L		11/27/19 09:00	11/30/19 18:48	1

Lab Sample ID: LCS 480-506895/2-A
Matrix: Water
Analysis Batch: 507581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506895

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.201		mg/L		101	80 - 120		
Barium			0.200	0.213		mg/L		107	80 - 120		
Cadmium			0.200	0.203		mg/L		102	80 - 120		
Calcium			10.0	10.0		mg/L		100	80 - 120		
Chromium			0.200	0.198		mg/L		99	80 - 120		
Cobalt			0.200	0.190		mg/L		95	80 - 120		
Copper			0.200	0.199		mg/L		99	80 - 120		
Iron			10.0	10.2		mg/L		102	80 - 120		
Lead			0.200	0.196		mg/L		98	80 - 120		
Magnesium			10.0	9.79		mg/L		98	80 - 120		
Manganese			0.200	0.200		mg/L		100	80 - 120		
Nickel			0.200	0.194		mg/L		97	80 - 120		
Potassium			10.0	10.2		mg/L		102	80 - 120		
Sodium			10.0	9.83		mg/L		98	80 - 120		
Vanadium			0.200	0.199		mg/L		99	80 - 120		
Zinc			0.200	0.201		mg/L		100	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-599062/1-A
Matrix: Water
Analysis Batch: 599333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599062

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/04/19 13:20	12/05/19 20:03	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-599062/2-A
Matrix: Water
Analysis Batch: 599333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	4.97		mg/L		99	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-509968/1-A
Matrix: Water
Analysis Batch: 509981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509968

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.00020	mg/L		12/15/19 13:19	12/15/19 16:17	1

Lab Sample ID: LCS 480-509968/2-A
Matrix: Water
Analysis Batch: 509981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00697		mg/L		104	80 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-508355/12
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/05/19 14:48	1

Lab Sample ID: MB 480-508355/31
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/05/19 15:02	1

Lab Sample ID: MB 480-508355/45
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND	U	10	mg/L			12/05/19 15:13	1

Lab Sample ID: LCS 480-508355/13
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.9		mg/L		100	90 - 110

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: LCS 480-508355/32
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: LCS 480-508355/46
Matrix: Water
Analysis Batch: 508355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.5		mg/L		101	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-506689/1-B
Matrix: Water
Analysis Batch: 507112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507077

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	4.0	mg/L		11/27/19 06:30	11/27/19 10:25	1

Lab Sample ID: MB 480-507077/1-A
Matrix: Water
Analysis Batch: 507112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507077

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L		11/27/19 06:30	11/27/19 10:23	1

Lab Sample ID: LCS 480-507077/2-A
Matrix: Water
Analysis Batch: 507112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.932		mg/L		93	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-507940/51
Matrix: Water
Analysis Batch: 507940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			12/03/19 13:35	1

Lab Sample ID: LCS 480-507940/52
Matrix: Water
Analysis Batch: 507940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.9		mg/L		95	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-508403/206
Matrix: Water
Analysis Batch: 508403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/05/19 16:52	1

Lab Sample ID: LCS 480-508403/207
Matrix: Water
Analysis Batch: 508403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.0		mg/L		103	90 - 110		

Lab Sample ID: MB 480-508624/59
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/06/19 20:00	1

Lab Sample ID: MB 480-508624/88
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	U	5.0		mg/L			12/06/19 20:16	1

Lab Sample ID: LCS 480-508624/60
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.7		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-508624/89
Matrix: Water
Analysis Batch: 508624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.4		mg/L		98	90 - 110		

Method: 9251 - Chloride

Lab Sample ID: MB 480-508402/186
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 16:34	1

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 480-508402/206
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	U	0.50		mg/L			12/05/19 17:22	1

Lab Sample ID: LCS 480-508402/185
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	24.1		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-508402/205
Matrix: Water
Analysis Batch: 508402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.0		mg/L		104	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-507641/1
Matrix: Water
Analysis Batch: 507641

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	5.0		mg/L			12/02/19 12:13	1

Lab Sample ID: LCS 480-507641/2
Matrix: Water
Analysis Batch: 507641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			502	519		mg/L		103	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-506906/1
Matrix: Water
Analysis Batch: 506906

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			11/26/19 15:31	1

Lab Sample ID: LCS 480-506906/2
Matrix: Water
Analysis Batch: 506906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			244	230		mg/L		94	88 - 110		

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

Method: SM 5310C - TOC

Lab Sample ID: MB 480-507487/4
Matrix: Water
Analysis Batch: 507487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND	U	1.0		mg/L			11/29/19 13:28	1

Lab Sample ID: LCS 480-507487/5
Matrix: Water
Analysis Batch: 507487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			60.0	60.9		mg/L		101	90 - 110		

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

GC/MS VOA

Analysis Batch: 506958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	8260C	
480-163278-2	8BLC	Total/NA	Water	8260C	
480-163278-3	8CLC	Total/NA	Water	8260C	
480-163278-4	TB	Total/NA	Water	8260C	
MB 480-506958/6	Method Blank	Total/NA	Water	8260C	
LCS 480-506958/4	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 506895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	3005A	
480-163278-2	8BLC	Total/NA	Water	3005A	
480-163278-3	8CLC	Total/NA	Water	3005A	
MB 480-506895/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-506895/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 507581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	6010C	506895
480-163278-2	8BLC	Total/NA	Water	6010C	506895
480-163278-3	8CLC	Total/NA	Water	6010C	506895
MB 480-506895/1-A	Method Blank	Total/NA	Water	6010C	506895
LCS 480-506895/2-A	Lab Control Sample	Total/NA	Water	6010C	506895

Analysis Batch: 507694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	6010C	506895
480-163278-2	8BLC	Total/NA	Water	6010C	506895
480-163278-3	8CLC	Total/NA	Water	6010C	506895

Prep Batch: 509968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	7470A	
480-163278-2	8BLC	Total/NA	Water	7470A	
480-163278-3	8CLC	Total/NA	Water	7470A	
MB 480-509968/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-509968/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 509981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	7470A	509968
480-163278-2	8BLC	Total/NA	Water	7470A	509968
480-163278-3	8CLC	Total/NA	Water	7470A	509968
MB 480-509968/1-A	Method Blank	Total/NA	Water	7470A	509968
LCS 480-509968/2-A	Lab Control Sample	Total/NA	Water	7470A	509968

Prep Batch: 599062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	3010A	
480-163278-2	8BLC	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 599062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-3	8CLC	Total/NA	Water	3010A	
MB 680-599062/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-599062/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 599333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	6020A	599062
480-163278-2	8BLC	Total/NA	Water	6020A	599062
480-163278-3	8CLC	Total/NA	Water	6020A	599062
MB 680-599062/1-A	Method Blank	Total/NA	Water	6020A	599062
LCS 680-599062/2-A	Lab Control Sample	Total/NA	Water	6020A	599062

General Chemistry

Leach Batch: 506689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-506689/1-B	Method Blank	Total/NA	Water	D3987-85	

Analysis Batch: 506906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	SM 2540D	
480-163278-2	8BLC	Total/NA	Water	SM 2540D	
480-163278-3	8CLC	Total/NA	Water	SM 2540D	
MB 480-506906/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-506906/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 506943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	353.2	
480-163278-2	8BLC	Total/NA	Water	353.2	
480-163278-3	8CLC	Total/NA	Water	353.2	

Prep Batch: 507077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	Distill/Ammonia	
480-163278-2	8BLC	Total/NA	Water	Distill/Ammonia	
480-163278-3	8CLC	Total/NA	Water	Distill/Ammonia	
MB 480-506689/1-B	Method Blank	Total/NA	Water	Distill/Ammonia	506689
MB 480-507077/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-507077/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 507112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	350.1	507077
480-163278-2	8BLC	Total/NA	Water	350.1	507077
480-163278-3	8CLC	Total/NA	Water	350.1	507077
MB 480-506689/1-B	Method Blank	Total/NA	Water	350.1	507077
MB 480-507077/1-A	Method Blank	Total/NA	Water	350.1	507077
LCS 480-507077/2-A	Lab Control Sample	Total/NA	Water	350.1	507077

General Chemistry

Analysis Batch: 507487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	SM 5310C	
480-163278-2	8BLC	Total/NA	Water	SM 5310C	
480-163278-3	8CLC	Total/NA	Water	SM 5310C	
MB 480-507487/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-507487/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 507641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	SM 2540C	
480-163278-2	8BLC	Total/NA	Water	SM 2540C	
480-163278-3	8CLC	Total/NA	Water	SM 2540C	
MB 480-507641/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-507641/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 507940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	410.4	
480-163278-2	8BLC	Total/NA	Water	410.4	
480-163278-3	8CLC	Total/NA	Water	410.4	
MB 480-507940/51	Method Blank	Total/NA	Water	410.4	
LCS 480-507940/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 508355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	310.2	
480-163278-2	8BLC	Total/NA	Water	310.2	
480-163278-3	8CLC	Total/NA	Water	310.2	
MB 480-508355/12	Method Blank	Total/NA	Water	310.2	
MB 480-508355/31	Method Blank	Total/NA	Water	310.2	
MB 480-508355/45	Method Blank	Total/NA	Water	310.2	
LCS 480-508355/13	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-508355/32	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-508355/46	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 508402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	9251	
480-163278-2	8BLC	Total/NA	Water	9251	
480-163278-3	8CLC	Total/NA	Water	9251	
MB 480-508402/186	Method Blank	Total/NA	Water	9251	
MB 480-508402/206	Method Blank	Total/NA	Water	9251	
LCS 480-508402/185	Lab Control Sample	Total/NA	Water	9251	
LCS 480-508402/205	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 508403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	9038	
480-163278-2	8BLC	Total/NA	Water	9038	
MB 480-508403/206	Method Blank	Total/NA	Water	9038	
LCS 480-508403/207	Lab Control Sample	Total/NA	Water	9038	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Job ID: 480-163278-1

General Chemistry

Analysis Batch: 508624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-3	8CLC	Total/NA	Water	9038	
MB 480-508624/59	Method Blank	Total/NA	Water	9038	
MB 480-508624/88	Method Blank	Total/NA	Water	9038	
LCS 480-508624/60	Lab Control Sample	Total/NA	Water	9038	
LCS 480-508624/89	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 512342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	SM 1030E	
480-163278-2	8BLC	Total/NA	Water	SM 1030E	
480-163278-3	8CLC	Total/NA	Water	SM 1030E	

Field Service / Mobile Lab

Analysis Batch: 511643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163278-1	8ALC	Total/NA	Water	Field Sampling	
480-163278-2	8BLC	Total/NA	Water	Field Sampling	
480-163278-3	8CLC	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Client Sample ID: 8ALC
Lab Sample ID: 480-163278-1
Date Collected: 11/25/19 13:00
Matrix: Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	506958	11/27/19 02:45	AMM	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		1	507581	11/30/19 20:44	AMH	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		5	507694	12/02/19 14:09	AMH	TAL BUF
Total/NA	Prep	3010A			599062	12/04/19 13:20	AJR	TAL SAV
Total/NA	Analysis	6020A		1	599333	12/05/19 20:43	BJB	TAL SAV
Total/NA	Prep	7470A			509968	12/15/19 13:19	BMB	TAL BUF
Total/NA	Analysis	7470A		1	509981	12/15/19 16:41	BMB	TAL BUF
Total/NA	Analysis	310.2		45	508355	12/05/19 14:49	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			507077	11/27/19 06:30	CLT	TAL BUF
Total/NA	Analysis	350.1		1	507112	11/27/19 10:38	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506943	11/26/19 17:22	BEF	TAL BUF
Total/NA	Analysis	410.4		10	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 17:09	SRW	TAL BUF
Total/NA	Analysis	9251		80	508402	12/05/19 17:30	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	512342	12/31/19 10:32	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	507641	12/02/19 12:13	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506906	11/26/19 15:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		4	507487	11/29/19 16:59	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511643	11/25/19 13:00	FLD	TAL BUF

Client Sample ID: 8BLC
Lab Sample ID: 480-163278-2
Date Collected: 11/25/19 13:40
Matrix: Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	506958	11/27/19 03:09	AMM	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		1	507581	11/30/19 20:47	AMH	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		5	507694	12/02/19 14:13	AMH	TAL BUF
Total/NA	Prep	3010A			599062	12/04/19 13:20	AJR	TAL SAV
Total/NA	Analysis	6020A		1	599333	12/05/19 20:47	BJB	TAL SAV
Total/NA	Prep	7470A			509968	12/15/19 13:19	BMB	TAL BUF
Total/NA	Analysis	7470A		1	509981	12/15/19 16:42	BMB	TAL BUF
Total/NA	Analysis	310.2		70	508355	12/05/19 14:49	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			507077	11/27/19 06:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	507112	11/27/19 10:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506943	11/26/19 16:19	BEF	TAL BUF
Total/NA	Analysis	410.4		20	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	508403	12/05/19 17:09	SRW	TAL BUF
Total/NA	Analysis	9251		90	508402	12/05/19 17:30	SRW	TAL BUF

Lab Chronicle

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Client Sample ID: 8BLC
Lab Sample ID: 480-163278-2
Date Collected: 11/25/19 13:40
Matrix: Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 1030E		1	512342	12/31/19 10:32	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	507641	12/02/19 12:13	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506906	11/26/19 15:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		10	507487	11/29/19 17:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511643	11/25/19 13:40	FLD	TAL BUF

Client Sample ID: 8CLC
Lab Sample ID: 480-163278-3
Date Collected: 11/25/19 14:15
Matrix: Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	506958	11/27/19 03:33	AMM	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		1	507581	11/30/19 20:51	AMH	TAL BUF
Total/NA	Prep	3005A			506895	11/27/19 09:00	JLC	TAL BUF
Total/NA	Analysis	6010C		5	507694	12/02/19 14:17	AMH	TAL BUF
Total/NA	Prep	3010A			599062	12/04/19 13:20	AJR	TAL SAV
Total/NA	Analysis	6020A		1	599333	12/05/19 20:33	BJB	TAL SAV
Total/NA	Prep	7470A			509968	12/15/19 13:19	BMB	TAL BUF
Total/NA	Analysis	7470A		1	509981	12/15/19 16:43	BMB	TAL BUF
Total/NA	Analysis	310.2		80	508355	12/05/19 15:29	SRW	TAL BUF
Total/NA	Prep	Distill/Ammonia			507077	11/27/19 06:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	507112	11/27/19 10:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	506943	11/26/19 17:23	BEF	TAL BUF
Total/NA	Analysis	410.4		20	507940	12/03/19 13:35	CSS	TAL BUF
Total/NA	Analysis	9038		1	508624	12/06/19 20:34	SRW	TAL BUF
Total/NA	Analysis	9251		45	508402	12/05/19 17:29	SRW	TAL BUF
Total/NA	Analysis	SM 1030E		1	512342	12/31/19 10:32	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	507641	12/02/19 12:13	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	506906	11/26/19 15:31	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		10	507487	11/29/19 17:30	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	511643	11/25/19 14:15	FLD	TAL BUF

Client Sample ID: TB
Lab Sample ID: 480-163278-4
Date Collected: 11/25/19 00:00
Matrix: Water
Date Received: 11/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	506958	11/27/19 03:57	AMM	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
9251		Water	Chloride
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity
SM 1030E		Water	Anion/Cation Balance
SM 1030E		Water	Calculated TDS
SM 1030E		Water	TDS Ratio
SM 1030E		Water	TDS to Conductivity Ratio

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

Method Summary

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-163278-1	8ALC	Water	11/25/19 13:00	11/26/19 10:00	
480-163278-2	8BLC	Water	11/25/19 13:40	11/26/19 10:00	
480-163278-3	8CLC	Water	11/25/19 14:15	11/26/19 10:00	
480-163278-4	TB	Water	11/25/19 00:00	11/26/19 10:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-163278-1
Project/Site: Crossroads ME-SA 8ALC, BLC, CLC

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Water	Total/NA	mg/L	0.0090	0.015
6010C	Calcium	Water	Total/NA	mg/L	0.15	0.50
6010C	Iron	Water	Total/NA	mg/L	0.030	0.05
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Sodium	Water	Total/NA	mg/L	0.40	1.0
6020A	Aluminum	Water	Total/NA	mg/L	0.050	0.1
9251	Chloride	Water	Total/NA	mg/L	0.50	1.0
SM 2540C	Total Dissolved Solids	Water	Total/NA	mg/L	5.0	10

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ADAMS	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-133041-26855.1
Client Contact: Sherwood McKenney	Phone: (207) 831-9250	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 62	Due Date Requested:			
City: Norridgewock	TAT Requested (days):			
State, Zip: ME, 04957				
Phone:	PO #: Purchase Order Requested			
Email: smckenne@wm.com	WO #:			
Project Name: Crossroads ME/ Event Desc: Semi-Annual ~~Underdrain Leak Det~~	Project #: 48003284			
Site: Maine	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8270D - Semi-Volatiles~~	350.1, 410.4	6010C, 7470A	8260C - Volatiles	5310C - Total Organic Carbon	~~5210B - Biochemical Oxygen Demand~~	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	FieldSampling - Field Parameters	353.2, 353.2_Nitrite, 9038, 9251, Nitrate_Calc	310.2 - Alkalinity, Total	6020A - Aluminum		Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	A	N	N	N	N	N	N	D			
~~10ABLD~~ SALC	11/25/19	1300	G	Water	N	N		1	1	3	2		1	1	X	2	1	1		13	
~~11ABCLD~~ SBLC		1340	G	Water	N	N		1	1	3	2		1	1	X	2	1	1		13	
~~12LD~~ SCLC		1415	G	Water	N	N		1	1	3	2		1	1	X	2	1	1		13	
~~12ABLD~~ TB				Water						3										3	
~~45SD~~				Water																	
~~4ABLD~~				Water																	
~~5ABLD~~				Water																	
~~7LD~~				Water																	
~~9ABCLD~~				Water																	

480-163278 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time: 11/25/19 1800	Company KAS	Received by: Cynthia Cicolo	Date/Time: 11/26/19 1600	Company TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.2 #1701

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-53401.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-163278-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 12/13/2019	Analysis Requested		Preservation Codes:
City: Savannah	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Crossroads ME	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A Total Metals ICPMS (All)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
8ALC (480-163278-1)	11/25/19	13:00 Eastern		Water			X	1	
8BLC (480-163278-2)	11/25/19	13:40 Eastern		Water			X	1	
8CLC (480-163278-3)	11/25/19	14:15 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Chukwu Okolo	11/26/19 1706	TA		11-27-19 1010	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.8/4.9

Ver: 01/16/2019

FIELD INFORMATION FORM

Site Name: Crossroads
Site Nbr:
Sample Point: BALC
Sample ID:

This Waste Management Field Information Form is Required. This form is to be completed in addition to any State Forms. This Field Form is submitted along with the Chain of Custody Form(s) that accompany the sample(s) contained (for with the cooler/box in relation to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	PURGED TIME (hr:min)	CALCULATED VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLS PURGED

Note: For Low-Flow Sampling, Purge Vol in Casing and Well Vols "Spec" to Water Vol in Table. Use Calculated Time/Flow-Cell Vols Purged. Mark "--" & record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment: Dedicated: (Y) or N

Filter Device: Y or (N) (0.45 u) or _____ (circle or fill in)

Purging Device: —
A- Submersible Pump, D-Bailer
B-Peristaltic Pump, E-Piston Pump
C-QED Bladder Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: —
A-In-line Disposable, C-Vacuum
B-Pressure, X-Other:

Sample Tube Type: —
A-Teflon, C-PVC, X-Other:
B-Stainless Steel, D-Polypropylene

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (w/r datum from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st							
	2nd							
	3rd							
	4th							
Suggested range for stabilized readings or more Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill-in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/25/19	7.38	1805.2	17.1	13.4	3.6	-71.2	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: NORMAL Odor: STRONG Color: BROWN Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: W 5-10 Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/25/19	NICK ADAMS		KAS

DISTRIBUTION: WHITE-ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

Site Name: Crossroads | Site No.: | Sample Point: 1 & B&C | Sample ID:

This Waste Management Field Information Form is Required. This form is to be completed in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Form that accompanies the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Bar ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing, Flow Cell/Final Tubing Flow Cell Vols Purged. Mark changes; record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment: Dedicated: (Y) or N | Filter Device: Y or (N) | 0.45 µ or ____ µ (circle or fill in)

Purging Device: — (A: Submersible Pump, B: Peristaltic Pump, C: QED Bladder Pump, D: Bailer, E: Piston Pump, F: Dipper/Bottle)

Sampling Device: F

Filter Type: — (A: In-line Disposable, B: Pressure, C: Vacuum, X: Other)

X-Other:

Sample Tube Type: — (A: Teflon, B: Stainless Steel, C: PVC, D: Polypropylene, X: Other)

WELL DATA

Well Elevation (at TOC): (ft/msl) | Depth to Water (DTW) (from TOC): (ft) | Groundwater Elevation (calc. datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft) | Stick Up (from ground elevation): (ft) | Casing ID: (in) | Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested target for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/25/19	7.66	2237	21.4	3.4	1.6	-110.3	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: NORMAL | Odor: STRONG | Color: BROWN | Other:

Weather Conditions (required daily, or as conditions change): | Direction/Speed: W 5-10 | Outlook: SUNNY | Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/25/19	NICK ADAMS	N Adams	KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CROSSROADS
Site No.:
Sample Point: 8CLC
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLS PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N
Purging Device:
Sampling Device: P
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)
Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)
Depth to Water (DTW) (from TOC): (ft)
Groundwater Elevation (Site datum from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11 25 19	7.54	17782	19.1	1.25	0.8	+127	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: NORMAL
Odor: STRONG
Color: BROWN
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: N 5-10
Outlook: SUNNY
Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11 25 19	NICK ADAMS		KAS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163278-1

Login Number: 163278
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Katahdin
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163278-1

Login Number: 163278
List Number: 2
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 11/27/19 01:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-163981-1
Client Project/Site: Crossroads ME: S/A Leachate Tank
Sampling Event: Semi-Annual Leachate Tank (8,11)

For:
Waste Management
WMDSM, Inc- Crossroads Landfill
357 Mercer Road
PO BOX 629
Norridgewock, Maine 04957

Attn: Sherwood McKenney

Authorized for release by:
1/7/2020 12:53:45 PM
Katelyn Ferguson, Project Management Assistant I
katelyn.ferguson@testamericainc.com

Designee for

Denise Giglia, Project Manager I
(716)691-2600
denise.giglia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Not Detected above the associated Quantitaion Limit

GC Semi VOA

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Metals

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

General Chemistry

Qualifier	Qualifier Description
U	Not Detected above the associated Quantitaion Limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-163981-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-163981-1

Comments
No additional comments.

Receipt
The samples were received on 12/11/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: TANK (480-163981-1), (480-163981-Q-1 MS) and (480-163981-Q-1 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: TANK (480-163981-1), (480-163981-Q-1 MS) and (480-163981-Q-1 MSD). Sample pH is 7.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to the nature of the sample matrix: TANK (480-163981-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-163981-1). The reporting limits (RLs) have been adjusted proportionately.

Method SM 4500 Cl G: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: TANK (480-163981-1) and (480-163981-J-1 DU).

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-163981-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: TANK (480-163981-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Client Sample ID: TANK — Lab Sample ID: 480-163981-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	11		2.0		ng/L	4		1631E	Total/NA
Arsenic	0.23		0.010		mg/L	1		6010C	Total/NA
Barium	0.65		0.0050		mg/L	1		6010C	Total/NA
Chromium	0.44		0.010		mg/L	1		6010C	Total/NA
Cobalt	0.023		0.010		mg/L	1		6010C	Total/NA
Lead	0.014		0.0050		mg/L	1		6010C	Total/NA
Nickel	0.18		0.040		mg/L	1		6010C	Total/NA
Zinc	0.044		0.020		mg/L	1		6010C	Total/NA
Aluminum	0.40		0.25		mg/L	1		6020A	Total/NA
Flashpoint	>180		50.0		Degrees F	1		1010A	Total/NA
Ammonia as N	1200		200		mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	1300		100		mg/L	10		410.4	Total/NA
Cyanide, Total	0.011		0.010		mg/L	1		9012B	Total/NA
pH	8.0		0.1		SU	1		9040C	Total/NA
Temperature	17.4		0.001		Degrees C	1		9040C	Total/NA
Anion/Cation Balance	100				%	1		SM 1030E	Total/NA
Calculated TDS	3300				mg/L	1		SM 1030E	Total/NA
TDS Ratio	1.6				NONE	1		SM 1030E	Total/NA
TDS to Conductivity Ratio	0.30				NONE	1		SM 1030E	Total/NA
Hardness	850		50		mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	5300		100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	65		4.0		mg/L	1		SM 2540D	Total/NA
Phosphorus	9.9		0.10		mg/L	10		SM 4500 P E	Total/NA
Biochemical Oxygen Demand	120		80.0		mg/L	1		SM 5210B	Total/NA
Escherichia coli	414		2		CFU/100mL	1		SM 9223B	Total/NA
Turbidity	55.4				NTU	1		Field Sampling	Total/NA
Temperature	13.1				Degrees C	1		Field Sampling	Total/NA
Field pH	7.71				SU	1		Field Sampling	Total/NA
Specific Conductance	17496				umhos/cm	1		Field Sampling	Total/NA
Field EH/ORP	-33.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.2				mg/L	1		Field Sampling	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-163981-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: TANK
Date Collected: 12/10/19 15:00
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163981-1
Matrix: Leachate

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	100		ug/L			12/13/19 01:49	20
Methyl Ethyl Ketone	ND	U	200		ug/L			12/13/19 01:49	20
Methyl isobutyl ketone	ND	U	100		ug/L			12/13/19 01:49	20
Acetone	ND	U	200		ug/L			12/13/19 01:49	20
Benzene	ND	U	20		ug/L			12/13/19 01:49	20
Methylene Chloride	ND	U	20		ug/L			12/13/19 01:49	20
Toluene	ND	U	20		ug/L			12/13/19 01:49	20
Xylenes, Total	ND	U	40		ug/L			12/13/19 01:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/13/19 01:49*	*20*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/13/19 01:49*	*20*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/13/19 01:49*	*20*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/13/19 01:49*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
2-Methylphenol	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
4-Methylphenol	ND	U	500		ug/L		12/13/19 15:42	12/20/19 01:26	10
Alpha-Terpineol	ND	U	500		ug/L		12/13/19 15:42	12/20/19 01:26	10
Benzoic acid	ND	U	7500		ug/L		12/13/19 15:42	12/20/19 01:26	10
Benzyl alcohol	ND	U	1000		ug/L		12/13/19 15:42	12/20/19 01:26	10
Fluoranthene	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
Naphthalene	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
Phenanthrene	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
Phenol	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10
Pyrene	ND	U	250		ug/L		12/13/19 15:42	12/20/19 01:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*12/13/19 15:42*	*12/20/19 01:26*	*10*
2-Fluorobiphenyl	*97*		*48 - 120*	*12/13/19 15:42*	*12/20/19 01:26*	*10*
p-Terphenyl-d14	*64*		*60 - 148*	*12/13/19 15:42*	*12/20/19 01:26*	*10*
Phenol-d5	*48*		*22 - 120*	*12/13/19 15:42*	*12/20/19 01:26*	*10*
2-Fluorophenol	*68*		*35 - 120*	*12/13/19 15:42*	*12/20/19 01:26*	*10*
2,4,6-Tribromophenol	*116*		*41 - 120*	*12/13/19 15:42*	*12/20/19 01:26*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.25		ug/L		12/13/19 16:09	12/16/19 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*20 - 120*	*12/13/19 16:09*	*12/16/19 15:12*	*1*
Tetrachloro-m-xylene	*62*		*44 - 120*	*12/13/19 16:09*	*12/16/19 15:12*	*1*

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**		2.0		ng/L		12/18/19 14:00	12/19/19 13:15	4

Client Sample ID: TANK
Date Collected: 12/10/19 15:00
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163981-1
Matrix: Leachate

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.23**		0.010		mg/L		12/13/19 08:12	12/20/19 04:38	1
Barium	**0.65**		0.0050		mg/L		12/13/19 08:12	12/20/19 04:38	1
Cadmium	ND	U	0.0050		mg/L		12/13/19 08:12	12/20/19 04:38	1
Chromium	**0.44**		0.010		mg/L		12/13/19 08:12	12/20/19 04:38	1
Cobalt	**0.023**		0.010		mg/L		12/13/19 08:12	12/20/19 04:38	1
Copper	ND	U	0.025		mg/L		12/13/19 08:12	12/20/19 04:38	1
Lead	**0.014**		0.0050		mg/L		12/13/19 08:12	12/20/19 04:38	1
Nickel	**0.18**		0.040		mg/L		12/13/19 08:12	12/20/19 04:38	1
Selenium	ND	U	0.010		mg/L		12/13/19 08:12	12/20/19 04:38	1
Silver	ND	U	0.015		mg/L		12/13/19 08:12	12/20/19 04:38	1
Thallium	ND	U	0.020		mg/L		12/13/19 08:12	12/20/19 04:38	1
Zinc	**0.044**		0.020		mg/L		12/13/19 08:12	12/20/19 04:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.40**		0.25		mg/L		12/27/19 13:22	12/30/19 12:44	1

General Chemistry

Analyte	Result	Qualifier	NONE		Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	**100**				%			01/06/20 17:59	1
Calculated TDS	**3300**				mg/L			01/06/20 17:59	1
TDS Ratio	**1.6**				NONE			01/06/20 17:59	1
TDS to Conductivity Ratio	**0.30**				NONE			01/06/20 17:59	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND	U	5.3		mg/L		12/24/19 10:11	12/24/19 10:30	1
Ammonia as N	**1200**		200		mg/L		12/16/19 11:30	12/16/19 16:02	2
Nitrate	ND	U	0.050		mg/L			12/11/19 18:26	1
Nitrite	ND	U	0.050		mg/L			12/11/19 18:26	1
Chemical Oxygen Demand	**1300**		100		mg/L			12/18/19 17:02	10
Cyanide, Total	**0.011**		0.010		mg/L		12/19/19 11:00	12/19/19 13:13	1
Hardness	**850**		50		mg/L			12/14/19 13:29	1
Total Dissolved Solids	**5300**		100		mg/L			12/13/19 14:46	1
Chlorine, Total Residual	ND	U	0.040		mg/L			12/21/19 13:39	2
Phosphorus	**9.9**		0.10		mg/L			12/18/19 12:15	10
Biochemical Oxygen Demand	**120**		80.0		mg/L			12/11/19 10:19	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		50.0		Degrees F			12/18/19 15:38	1
pH	**8.0**		0.1		SU			12/14/19 20:17	1
Temperature	**17.4**		0.001		Degrees C			12/14/19 20:17	1
Total Suspended Solids	**65**		4.0		mg/L			12/17/19 14:56	1

Method: SM 9223B - Coliforms, Total, and E.Coli

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	**414**		2		CFU/100mL			12/10/19 20:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**55.4**				NTU			12/10/19 15:00	1
Temperature	**13.1**				Degrees C			12/10/19 15:00	1
Field pH	**7.71**				SU			12/10/19 15:00	1

Client Sample Results

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Client Sample ID: TANK
Lab Sample ID: 480-163981-1
Date Collected: 12/10/19 15:00
Matrix: Leachate
Date Received: 12/11/19 10:00

Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	17496				umhos/cm			12/10/19 15:00	1
Field EH/ORP	-33.2				millivolts			12/10/19 15:00	1
Oxygen, Dissolved	4.2				mg/L			12/10/19 15:00	1

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Client Sample ID: TB

Date Collected: 12/10/19 00:00
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163981-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			12/12/19 18:41	1
Methyl Ethyl Ketone	ND	U	10		ug/L			12/12/19 18:41	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			12/12/19 18:41	1
Acetone	ND	U	10		ug/L			12/12/19 18:41	1
Benzene	ND	U	1.0		ug/L			12/12/19 18:41	1
Methylene Chloride	ND	U	1.0		ug/L			12/12/19 18:41	1
Toluene	ND	U	1.0		ug/L			12/12/19 18:41	1
Xylenes, Total	ND	U	2.0		ug/L			12/12/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/12/19 18:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/12/19 18:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*12/12/19 18:41*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/12/19 18:41*	*1*

Surrogate Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Leachate

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-163981-1	TANK	102	98	98	101
480-163981-1 MS	TANK	103	98	98	102
480-163981-1 MSD	TANK	102	98	98	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
LCS 480-509505/5	Lab Control Sample	102	100	103	99
LCS 480-509583/6	Lab Control Sample	104	100	100	103
MB 480-509505/7	Method Blank	111	102	102	108
MB 480-509583/8	Method Blank	104	99	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-163981-2	TB	100	99	105	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Leachate

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(46-120)	(48-120)	(60-148)	(22-120)	(35-120)	(41-120)
480-163981-1	TANK	86	97	64	48	68	116

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14

Surrogate Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)	PHL (22-120)	2FP (35-120)	TBP (41-120)
LCS 480-509829/2-A	Lab Control Sample	93	90	92	57	71	103
LCSD 480-509829/3-A	Lab Control Sample Dup	96	91	95	56	70	107
MB 480-509829/1-A	Method Blank	96	99	104	53	72	68

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (20-120)	TCX2 (44-120)
480-163981-1	TANK	51	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (20-120)	TCX2 (44-120)
LCS 480-509837/2-A	Lab Control Sample	52	76
MB 480-509837/1-A	Method Blank	74	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-509505/7
Matrix: Water
Analysis Batch: 509505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			12/12/19 15:37	1
Methyl Ethyl Ketone	ND	U	10		ug/L			12/12/19 15:37	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			12/12/19 15:37	1
Acetone	ND	U	10		ug/L			12/12/19 15:37	1
Benzene	ND	U	1.0		ug/L			12/12/19 15:37	1
Methylene Chloride	ND	U	1.0		ug/L			12/12/19 15:37	1
Toluene	ND	U	1.0		ug/L			12/12/19 15:37	1
Xylenes, Total	ND	U	2.0		ug/L			12/12/19 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/12/19 15:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/12/19 15:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/12/19 15:37*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*12/12/19 15:37*	*1*

Lab Sample ID: LCS 480-509505/5
Matrix: Water
Analysis Batch: 509505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	152		ug/L		121	65 - 127
Methyl Ethyl Ketone	125	174		ug/L		139	57 - 140
Methyl isobutyl ketone	125	147		ug/L		118	71 - 125
Acetone	125	171		ug/L		137	56 - 142
Benzene	25.0	27.0		ug/L		108	71 - 124
Methylene Chloride	25.0	30.1		ug/L		121	75 - 124
Toluene	25.0	26.1		ug/L		105	80 - 122
Xylenes, Total	50.0	51.8		ug/L		104	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: MB 480-509583/8
Matrix: Water
Analysis Batch: 509583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			12/12/19 23:07	1
Methyl Ethyl Ketone	ND	U	10		ug/L			12/12/19 23:07	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			12/12/19 23:07	1
Acetone	ND	U	10		ug/L			12/12/19 23:07	1
Benzene	ND	U	1.0		ug/L			12/12/19 23:07	1
Methylene Chloride	ND	U	1.0		ug/L			12/12/19 23:07	1
Toluene	ND	U	1.0		ug/L			12/12/19 23:07	1
Xylenes, Total	ND	U	2.0		ug/L			12/12/19 23:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/12/19 23:07	1
Toluene-d8 (Surr)	99		80 - 120		12/12/19 23:07	1
4-Bromofluorobenzene (Surr)	99		73 - 120		12/12/19 23:07	1
Dibromofluoromethane (Surr)	103		75 - 123		12/12/19 23:07	1

Lab Sample ID: LCS 480-509583/6
Matrix: Water
Analysis Batch: 509583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	121		ug/L		97	65 - 127
Methyl Ethyl Ketone	125	123		ug/L		98	57 - 140
Methyl isobutyl ketone	125	121		ug/L		96	71 - 125
Acetone	125	118		ug/L		94	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Methylene Chloride	25.0	23.1		ug/L		93	75 - 124
Toluene	25.0	24.2		ug/L		97	80 - 122
Xylenes, Total	50.0	49.2		ug/L		98	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: 480-163981-1 MS
Matrix: Leachate
Analysis Batch: 509583

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND	U	2500	2410		ug/L		97	65 - 127
Methyl Ethyl Ketone	ND	U	2500	2280		ug/L		91	57 - 140
Methyl isobutyl ketone	ND	U	2500	2450		ug/L		98	71 - 125
Acetone	ND	U	2500	2090		ug/L		84	56 - 142
Benzene	ND	U	500	497		ug/L		99	71 - 124
Methylene Chloride	ND	U	500	464		ug/L		93	75 - 124
Toluene	ND	U	500	498		ug/L		100	80 - 122
Xylenes, Total	ND	U	1000	997		ug/L		100	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-163981-1 MSD
Matrix: Leachate
Analysis Batch: 509583

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	ND	U	2500	2360		ug/L		94	65 - 127	2	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-163981-1 MSD
Matrix: Leachate
Analysis Batch: 509583

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl Ethyl Ketone	ND	U	2500	2300		ug/L		92	57 - 140	1	20
Methyl isobutyl ketone	ND	U	2500	2360		ug/L		95	71 - 125	3	35
Acetone	ND	U	2500	2100		ug/L		84	56 - 142	1	15
Benzene	ND	U	500	487		ug/L		97	71 - 124	2	13
Methylene Chloride	ND	U	500	455		ug/L		91	75 - 124	2	15
Toluene	ND	U	500	483		ug/L		97	80 - 122	3	15
Xylenes, Total	ND	U	1000	974		ug/L		97	76 - 122	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-509829/1-A
Matrix: Water
Analysis Batch: 510865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509829

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
2-Methylphenol	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
4-Methylphenol	ND	U	10		ug/L		12/13/19 15:42	12/19/19 17:27	1
Alpha-Terpineol	ND	U	10		ug/L		12/13/19 15:42	12/19/19 17:27	1
Benzoic acid	ND	U	150		ug/L		12/13/19 15:42	12/19/19 17:27	1
Benzyl alcohol	ND	U	20		ug/L		12/13/19 15:42	12/19/19 17:27	1
Fluoranthene	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
Naphthalene	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
Phenanthrene	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
Phenol	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1
Pyrene	ND	U	5.0		ug/L		12/13/19 15:42	12/19/19 17:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*96*		*46 - 120*	*12/13/19 15:42*	*12/19/19 17:27*	*1*
2-Fluorobiphenyl	*99*		*48 - 120*	*12/13/19 15:42*	*12/19/19 17:27*	*1*
p-Terphenyl-d14	*104*		*60 - 148*	*12/13/19 15:42*	*12/19/19 17:27*	*1*
Phenol-d5	*53*		*22 - 120*	*12/13/19 15:42*	*12/19/19 17:27*	*1*
2-Fluorophenol	*72*		*35 - 120*	*12/13/19 15:42*	*12/19/19 17:27*	*1*
2,4,6-Tribromophenol	*68*		*41 - 120*	*12/13/19 15:42*	*12/19/19 17:27*	*1*

Lab Sample ID: LCS 480-509829/2-A
Matrix: Water
Analysis Batch: 510865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509829

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			32.0	27.7		ug/L		87	59 - 120		
2-Methylphenol			32.0	27.0		ug/L		84	39 - 120		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-509829/2-A
Matrix: Water
Analysis Batch: 510865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509829

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Methylphenol			32.0	26.8		ug/L		84	29 - 131		
Benzoic acid			256	147	J	ug/L		57	10 - 120		
Benzyl alcohol			32.0	27.3		ug/L		85	41 - 126		
Fluoranthene			32.0	30.4		ug/L		95	69 - 126		
Naphthalene			32.0	26.6		ug/L		83	57 - 120		
Phenanthrene			32.0	28.2		ug/L		88	68 - 120		
Phenol			32.0	18.5		ug/L		58	17 - 120		
Pyrene			32.0	28.4		ug/L		89	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*93*		*46 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
p-Terphenyl-d14	*92*		*60 - 148*
Phenol-d5	*57*		*22 - 120*
2-Fluorophenol	*71*		*35 - 120*
2,4,6-Tribromophenol	*103*		*41 - 120*

Lab Sample ID: LCSD 480-509829/3-A
Matrix: Water
Analysis Batch: 510865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 509829

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene			32.0	28.9		ug/L		90	59 - 120	4	21
2-Methylphenol			32.0	27.2		ug/L		85	39 - 120	1	27
4-Methylphenol			32.0	26.5		ug/L		83	29 - 131	1	24
Benzoic acid			256	146	J	ug/L		57	10 - 120	0	50
Benzyl alcohol			32.0	28.1		ug/L		88	41 - 126	3	34
Fluoranthene			32.0	31.3		ug/L		98	69 - 126	3	15
Naphthalene			32.0	27.6		ug/L		86	57 - 120	4	29
Phenanthrene			32.0	29.0		ug/L		91	68 - 120	3	15
Phenol			32.0	18.0		ug/L		56	17 - 120	3	34
Pyrene			32.0	29.5		ug/L		92	70 - 125	4	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*96*		*46 - 120*
2-Fluorobiphenyl	*91*		*48 - 120*
p-Terphenyl-d14	*95*		*60 - 148*
Phenol-d5	*56*		*22 - 120*
2-Fluorophenol	*70*		*35 - 120*
2,4,6-Tribromophenol	*107*		*41 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-509837/1-A
Matrix: Water
Analysis Batch: 510044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	U	0.050		ug/L		12/13/19 16:09	12/16/19 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*12/13/19 16:09*	*12/16/19 13:34*	*1*
Tetrachloro-m-xylene	*78*		*44 - 120*	*12/13/19 16:09*	*12/16/19 13:34*	*1*

Lab Sample ID: LCS 480-509837/2-A
Matrix: Water
Analysis Batch: 510044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Heptachlor			0.400	0.403		ug/L		101	58 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*52*		*20 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-416215/1-A
Matrix: Water
Analysis Batch: 416494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416215

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	U	0.50		ng/L		12/18/19 14:00	12/19/19 09:28	1

Lab Sample ID: LCS 240-416215/2-A
Matrix: Water
Analysis Batch: 416494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.06		ng/L		81	77 - 123		

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-509576/1-A
Matrix: Water
Analysis Batch: 511006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND	U	0.0050		mg/L		12/13/19 08:12	12/20/19 03:04	1
Cadmium	ND	U	0.0050		mg/L		12/13/19 08:12	12/20/19 03:04	1
Chromium	ND	U	0.010		mg/L		12/13/19 08:12	12/20/19 03:04	1
Cobalt	ND	U	0.010		mg/L		12/13/19 08:12	12/20/19 03:04	1
Copper	ND	U	0.025		mg/L		12/13/19 08:12	12/20/19 03:04	1
Lead	ND	U	0.0050		mg/L		12/13/19 08:12	12/20/19 03:04	1
Nickel	ND	U	0.040		mg/L		12/13/19 08:12	12/20/19 03:04	1
Selenium	ND	U	0.010		mg/L		12/13/19 08:12	12/20/19 03:04	1
Silver	ND	U	0.015		mg/L		12/13/19 08:12	12/20/19 03:04	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-509576/1-A
Matrix: Water
Analysis Batch: 511006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	U	0.020		mg/L		12/13/19 08:12	12/20/19 03:04	1
Zinc	ND	U	0.020		mg/L		12/13/19 08:12	12/20/19 03:04	1

Lab Sample ID: MB 480-509576/1-A
Matrix: Water
Analysis Batch: 511344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	U	0.010		mg/L		12/13/19 08:12	12/20/19 10:45	1

Lab Sample ID: LCS 480-509576/2-A
Matrix: Water
Analysis Batch: 511006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			0.200	0.225		mg/L		112	80 - 120		
Cadmium			0.200	0.211		mg/L		105	80 - 120		
Chromium			0.200	0.218		mg/L		109	80 - 120		
Cobalt			0.200	0.209		mg/L		105	80 - 120		
Copper			0.200	0.214		mg/L		107	80 - 120		
Lead			0.200	0.211		mg/L		105	80 - 120		
Nickel			0.200	0.211		mg/L		106	80 - 120		
Selenium			0.200	0.207		mg/L		104	80 - 120		
Silver			0.0500	0.0525		mg/L		105	80 - 120		
Thallium			0.200	0.213		mg/L		106	80 - 120		
Zinc			0.200	0.218		mg/L		109	80 - 120		

Lab Sample ID: LCS 480-509576/2-A
Matrix: Water
Analysis Batch: 511344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.200	0.201		mg/L		101	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-602296/1-A
Matrix: Water
Analysis Batch: 602720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	U	0.25		mg/L		12/27/19 13:22	12/30/19 12:13	1

Lab Sample ID: LCS 680-602296/2-A
Matrix: Water
Analysis Batch: 602720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum			5.00	5.06		mg/L		101	80 - 120		

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-510662/1
Matrix: Water
Analysis Batch: 510662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	79.00		Degrees F		98	97.5 - 102.5

Lab Sample ID: 480-163981-1 DU
Matrix: Leachate
Analysis Batch: 510662

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180		Degrees F		NC	10

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-511628/1-A
Matrix: Water
Analysis Batch: 511632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511628

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND	U	5.0	mg/L		12/24/19 10:11	12/24/19 10:30	1

Lab Sample ID: LCS 480-511628/2-A
Matrix: Water
Analysis Batch: 511632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	32.9		mg/L		82	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-510070/1-A
Matrix: Water
Analysis Batch: 510132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510070

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND	U	0.20	mg/L		12/16/19 11:30	12/16/19 15:39	1

Lab Sample ID: LCS 480-510070/2-A
Matrix: Water
Analysis Batch: 510132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.962		mg/L		96	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-510899/4
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10	mg/L			12/18/19 17:02	1

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 480-510899/52
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND	U	10		mg/L			12/18/19 17:02	1

Lab Sample ID: LCS 480-510899/5
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	26.5		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-510899/53
Matrix: Water
Analysis Batch: 510899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	27.5		mg/L		110	90 - 110		

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-510836/1-A
Matrix: Water
Analysis Batch: 510869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510836

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	U	0.010		mg/L		12/19/19 11:00	12/19/19 12:45	1

Lab Sample ID: LCS 480-510836/2-A
Matrix: Water
Analysis Batch: 510869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510836

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.237		mg/L		95	90 - 110		

Lab Sample ID: LCSD 480-510836/3-A
Matrix: Water
Analysis Batch: 510869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total			0.250	0.227		mg/L		91	90 - 110	4	15

Method: 9040C - pH

Lab Sample ID: LCS 480-509972/23
Matrix: Water
Analysis Batch: 509972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.1		SU		101	99 - 101		

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-509923/3
Matrix: Water
Analysis Batch: 509923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND	U	2.0		mg/L			12/14/19 13:29	1

Lab Sample ID: LCS 480-509923/4
Matrix: Water
Analysis Batch: 509923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness			272	280		mg/L		103	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-509802/1
Matrix: Water
Analysis Batch: 509802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	U	10		mg/L			12/13/19 14:46	1

Lab Sample ID: LCS 480-509802/2
Matrix: Water
Analysis Batch: 509802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	466		mg/L		93	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-510379/1
Matrix: Water
Analysis Batch: 510379

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	U	1.0		mg/L			12/17/19 14:56	1

Lab Sample ID: LCS 480-510379/2
Matrix: Water
Analysis Batch: 510379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			249	245		mg/L		98	88 - 110		

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 480-511266/3
Matrix: Water
Analysis Batch: 511266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND	U	0.020		mg/L			12/21/19 13:39	1

Method: SM 4500 Cl G - Chlorine, Residual (Continued)

Lab Sample ID: LCS 480-511266/4
Matrix: Water
Analysis Batch: 511266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorine, Total Residual			0.940	0.910		mg/L		97	90 - 110		

Lab Sample ID: 480-163981-1 DU
Matrix: Leachate
Analysis Batch: 511266

Client Sample ID: TANK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chlorine, Total Residual	ND	U		ND	U	mg/L				NC	20

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-510603/27
Matrix: Water
Analysis Batch: 510603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND	U	0.010		mg/L			12/18/19 12:15	1

Lab Sample ID: LCS 480-510603/28
Matrix: Water
Analysis Batch: 510603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus			0.200	0.202		mg/L		101	90 - 110		

QC Association Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

GC/MS VOA

Analysis Batch: 509505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-2	TB	Total/NA	WQ	8260C	
MB 480-509505/7	Method Blank	Total/NA	Water	8260C	
LCS 480-509505/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 509583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	8260C	
MB 480-509583/8	Method Blank	Total/NA	Water	8260C	
LCS 480-509583/6	Lab Control Sample	Total/NA	Water	8260C	
480-163981-1 MS	TANK	Total/NA	Leachate	8260C	
480-163981-1 MSD	TANK	Total/NA	Leachate	8260C	

GC/MS Semi VOA

Prep Batch: 509829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	3510C	
MB 480-509829/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-509829/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-509829/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 510865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	8270D	509829
MB 480-509829/1-A	Method Blank	Total/NA	Water	8270D	509829
LCS 480-509829/2-A	Lab Control Sample	Total/NA	Water	8270D	509829
LCSD 480-509829/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	509829

GC Semi VOA

Prep Batch: 509837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	3510C	
MB 480-509837/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-509837/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 510044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	8081B	509837
MB 480-509837/1-A	Method Blank	Total/NA	Water	8081B	509837
LCS 480-509837/2-A	Lab Control Sample	Total/NA	Water	8081B	509837

Metals

Prep Batch: 416215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	1631E	
MB 240-416215/1-A	Method Blank	Total/NA	Water	1631E	
LCS 240-416215/2-A	Lab Control Sample	Total/NA	Water	1631E	

QC Association Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Metals

Analysis Batch: 416494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	1631E	416215
MB 240-416215/1-A	Method Blank	Total/NA	Water	1631E	416215
LCS 240-416215/2-A	Lab Control Sample	Total/NA	Water	1631E	416215

Prep Batch: 509576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	3005A	
MB 480-509576/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-509576/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 511006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	6010C	509576
MB 480-509576/1-A	Method Blank	Total/NA	Water	6010C	509576
LCS 480-509576/2-A	Lab Control Sample	Total/NA	Water	6010C	509576

Analysis Batch: 511344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-509576/1-A	Method Blank	Total/NA	Water	6010C	509576
LCS 480-509576/2-A	Lab Control Sample	Total/NA	Water	6010C	509576

Prep Batch: 602296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	3010A	
MB 680-602296/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-602296/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 602720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	6020A	602296
MB 680-602296/1-A	Method Blank	Total/NA	Water	6020A	602296
LCS 680-602296/2-A	Lab Control Sample	Total/NA	Water	6020A	602296

General Chemistry

Analysis Batch: 509433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	353.2	

Analysis Batch: 509437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	353.2	

Analysis Batch: 509802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 2540C	
MB 480-509802/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-509802/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 509923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 2340C	
MB 480-509923/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-509923/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 509972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	9040C	
LCS 480-509972/23	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 510070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	Distill/Ammonia	
MB 480-510070/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-510070/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 510132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	350.1	510070
MB 480-510070/1-A	Method Blank	Total/NA	Water	350.1	510070
LCS 480-510070/2-A	Lab Control Sample	Total/NA	Water	350.1	510070

Analysis Batch: 510379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 2540D	
MB 480-510379/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-510379/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 510603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 4500 P E	
MB 480-510603/27	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-510603/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 510662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	1010A	
LCS 480-510662/1	Lab Control Sample	Total/NA	Water	1010A	
480-163981-1 DU	TANK	Total/NA	Leachate	1010A	

Prep Batch: 510836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	9012B	
MB 480-510836/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-510836/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCSD 480-510836/3-A	Lab Control Sample Dup	Total/NA	Water	9012B	

Analysis Batch: 510869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	9012B	510836
MB 480-510836/1-A	Method Blank	Total/NA	Water	9012B	510836
LCS 480-510836/2-A	Lab Control Sample	Total/NA	Water	9012B	510836

General Chemistry (Continued)

Analysis Batch: 510869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-510836/3-A	Lab Control Sample Dup	Total/NA	Water	9012B	510836

Analysis Batch: 510899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	410.4	
MB 480-510899/4	Method Blank	Total/NA	Water	410.4	
MB 480-510899/52	Method Blank	Total/NA	Water	410.4	
LCS 480-510899/5	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-510899/53	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 511266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 4500 Cl G	
MB 480-511266/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 480-511266/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
480-163981-1 DU	TANK	Total/NA	Leachate	SM 4500 Cl G	

Prep Batch: 511628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	1664B	
MB 480-511628/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-511628/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 511632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	1664B	511628
MB 480-511628/1-A	Method Blank	Total/NA	Water	1664B	511628
LCS 480-511628/2-A	Lab Control Sample	Total/NA	Water	1664B	511628

Analysis Batch: 512402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 5210B	

Analysis Batch: 512579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 1030E	

Biology

Analysis Batch: 512403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	SM 9223B	

Field Service / Mobile Lab

Analysis Batch: 512408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163981-1	TANK	Total/NA	Leachate	Field Sampling	

Lab Chronicle

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Client Sample ID: TANK
Lab Sample ID: 480-163981-1
Date Collected: 12/10/19 15:00
Matrix: Leachate
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	509583	12/13/19 01:49	S1V	TAL BUF
Total/NA	Prep	3510C			509829	12/13/19 15:42	AAP	TAL BUF
Total/NA	Analysis	8270D		10	510865	12/20/19 01:26	PJQ	TAL BUF
Total/NA	Prep	3510C			509837	12/13/19 16:09	AAP	TAL BUF
Total/NA	Analysis	8081B		1	510044	12/16/19 15:12	MAN	TAL BUF
Total/NA	Prep	1631E			416215	12/18/19 14:00	AJC	TAL CAN
Total/NA	Analysis	1631E		4	416494	12/19/19 13:15	AJC	TAL CAN
Total/NA	Prep	3005A			509576	12/13/19 08:12	ADM	TAL BUF
Total/NA	Analysis	6010C		1	511006	12/20/19 04:38	EMB	TAL BUF
Total/NA	Prep	3010A			602296	12/27/19 13:22	AJR	TAL SAV
Total/NA	Analysis	6020A		1	602720	12/30/19 12:44	BWR	TAL SAV
Total/NA	Analysis	1010A		1	510662	12/18/19 15:38	CRK	TAL BUF
Total/NA	Prep	1664B			511628	12/24/19 10:11	CRK	TAL BUF
Total/NA	Analysis	1664B		1	511632	12/24/19 10:30	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			510070	12/16/19 11:30	CLT	TAL BUF
Total/NA	Analysis	350.1		2	510132	12/16/19 16:02	CLT	TAL BUF
Total/NA	Analysis	353.2		1	509433	12/11/19 18:26	BEF	TAL BUF
Total/NA	Analysis	353.2		1	509437	12/11/19 18:26	BEF	TAL BUF
Total/NA	Analysis	410.4		10	510899	12/18/19 17:02	CSS	TAL BUF
Total/NA	Prep	9012B			510836	12/19/19 11:00	JRF	TAL BUF
Total/NA	Analysis	9012B		1	510869	12/19/19 13:13	MDL	TAL BUF
Total/NA	Analysis	9040C		1	509972	12/14/19 20:17	BEF	TAL BUF
Total/NA	Analysis	SM 1030E		1	512579	01/06/20 17:59	MTM2	TAL BUF
Total/NA	Analysis	SM 2340C		1	509923	12/14/19 13:29	AJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	509802	12/13/19 14:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	510379	12/17/19 14:56	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl G		2	511266	12/21/19 13:39	AJL	TAL BUF
Total/NA	Analysis	SM 4500 P E		10	510603	12/18/19 12:15	RP	TAL BUF
Total/NA	Analysis	SM 5210B		1	512402	12/11/19 10:19	LES	KAT
Total/NA	Analysis	SM 9223B		1	512403	12/10/19 20:00	LES	KAT
Total/NA	Analysis	Field Sampling		1	512408	12/10/19 15:00	LES	TAL BUF

Client Sample ID: TB
Lab Sample ID: 480-163981-2
Date Collected: 12/10/19 00:00
Matrix: WQ
Date Received: 12/11/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	509505	12/12/19 18:41	CRL	TAL BUF

Lab Chronicle

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	NY00044	12-04-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Leachate	Flashpoint
8270D	3510C	Leachate	Alpha-Terpineol
9040C		Leachate	pH
9040C		Leachate	Temperature
Field Sampling		Leachate	Field EH/ORP
Field Sampling		Leachate	Field pH
Field Sampling		Leachate	Oxygen, Dissolved
Field Sampling		Leachate	Specific Conductance
Field Sampling		Leachate	Temperature
Field Sampling		Leachate	Turbidity
SM 1030E		Leachate	Anion/Cation Balance
SM 1030E		Leachate	Calculated TDS
SM 1030E		Leachate	TDS Ratio
SM 1030E		Leachate	TDS to Conductivity Ratio
SM 4500 Cl G		Leachate	Chlorine, Total Residual

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-20
West Virginia DEP	State	210	12-31-19

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maine	State Program	GA00006	09-25-20

Method Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
6010C	Metals (ICP)	SW846	TAL BUF
6020A	Metals (ICP/MS)	SW846	TAL SAV
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 1030E	Cation Anion Balance	SM	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 Cl G	Chlorine, Residual	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	KAT
SM 9223B	Coliforms, Total, and E.Coli	SM	KAT
Field Sampling	Field Sampling	EPA	TAL BUF
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3010A	Preparation, Total Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

KAT = Scarborough, PO BOX 540, Scarborough, ME 04070
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-163981-1	TANK	Leachate	12/10/19 15:00	12/11/19 10:00	
480-163981-2	TB	WQ	12/10/19 00:00	12/11/19 10:00	

Quantitation Limit Exceptions Summary

Client: Waste Management
Job ID: 480-163981-1
Project/Site: Crossroads ME: S/A Leachate Tank

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Leachate	Total/NA	mg/L	0.010	0.015
6010C	Lead	Leachate	Total/NA	mg/L	0.0050	0.01
6010C	Selenium	Leachate	Total/NA	mg/L	0.010	0.025
6020A	Aluminum	Leachate	Total/NA	mg/L	0.050	0.1

December 31, 2019

Ms. Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

RE: Katahdin Lab Number: TM2964
Project ID: Waste Management - Crossroads
Project Manager: Mr. Galen Nickerson
Sample Receipt Date(s): December 10, 2019

Dear Ms. Shaffer:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

12/31/2019

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

H_ — Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 — The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 — The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 — The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 — The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 — The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 — As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 — The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 — The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin Analytical Services TM2964 page 0000002 of 0000009

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Client: Lisa Shaffer
Test America
10 Hazelwood Drive
Amherst,NY 14228

Lab Sample ID: TM2964-1
Report Date: 30-DEC-19
Project: Waste Management - Crossroads
SDG: TM2964

Sample Description	Matrix	Date Sampled	Date Received
TANK	AQ	10-DEC-19 15:00:00	10-DEC-19

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes	RPD/RSD
Total Biochemical Oxygen Demand	120 mg/L	80.	9.3	SM 5210B	WG268577	16-DEC-19 12:34:00	SM 5210B	11-DEC-19 1019	BR		

Katahdin Analytical Services TM2964 page 0000003 of 0000009

Quality Control Report

Blank Sample Summary Report

Total Biochemical Oxygen Demand

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG268577	SM 5210B	16-DEC-19	11-DEC-19	U 1.0 mg/L	2.0 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Total Biochemical Oxygen Demand

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG268577-2	LCS	WG268577	16-DEC-19	11-DEC-19	mg/L	198	220	111	85-115	

Katahdin Analytical Services TM2964 page 0000005 of 0000009

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Contact: Lisa Shaffer
Client: Test America
Address: 10 Hazelwood Drive
Amherst,NY 14228

SDG: TM2964
Waste Management -
Project: Crossroads
Client PO: 3048382
Report Date: 19-DEC-19

Lab ID: TM2964-1 **Client ID:** TANK **Collected Date:** 10-DEC-19 15:00:00 **Received Date:** 10-DEC-19

Sample Description:
Sample Comment:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Ecoli	414 /100mL	10-DEC-19	11-DEC-19 20:00:00	HM	HM	Colilert/Quantitray

This report has been electronically signed:
Alyssa Grant
Food and Microbiology Laboratory Supervisor

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, LLC.

Sample Receipt Condition Report

Client: Crossroads	KAS PM: GN	Sampled By: KA
Project:	KIMS Entry By: GN	Delivered By: KA
KAS Work Order#: TM2964	KIMS Review By: SJC	Received By: GN
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 17.45 12/19/19

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?				X	
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.				X	Temp (°C): -1.0 / Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	X				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?	X				Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				/	
Soil/Sediment: Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				/	
Sulfide - >9				/	
Cyanide – pH >12				/	
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
P.O. Box 540
Scarborough, ME 04070
Tel: (207) 874-2400
Fax: (207) 775-4029

Chain of Custody

Client:	Contact:	Phone #:	Fax #:
Test America	**Denise Giglia**	716-691-2400	( )
Address: 10 Hazelwood Dr	City: Amherst	State: NY	Zip Code: 14228
Purchase Order #:	Proj. Name/No.: Waste Management - Crossroads		Katahdin Quote #:
Bill (if different than above):	Address:		
Sampler (Print/Sign): Agustin Loureiro, Katrina Aman / KA			Copies To:

LAB USE ONLY Work Order #: **TM 2964**
Katahdin Project Number

Remarks:

Shipping Info: FEDEX UPS CLIENT
Airbill No:
Temp C Temp Blank Intact Not Intact

*	Sample Description	Date/Time Collected	Matrix	No. of Containers	Analysis and Container Type Preservatives: BOD (Filt. N)	E-Coliform (Filt. N)	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N	Filt. N
	TANK	12/10/2019 1500	AQ	2	1	1								

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 10, 2019
06:38 PM

Login Number: TM2964

Account: STL001 NoWeb
Severn Trent Laboratories

Project:

Primary Report Address:
Lisa Shaffer
Test America
10 Hazelwood Drive

Amherst,NY 14228
lisa.shaffer@testamericainc.com

Primary Invoice Address:
Accounts Payable
Test America
10 Hazelwood Drive

Amherst,NY 14228

Report CC Addresses:

Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	3048382
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	-1.0
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS064QC-XLS
LOGIN INITIALS	:	GN
PM	:	GN
PROJECT NAME	:	Waste Management - Crossroads
QC LEVEL	:	II+
REPORT INSTRUCTIONS	:	email pdf and invoice to lisa.shaffer@testamericainc.com, Denise.Giglia@testamericainc.com. PDF to Danielle_Sylvia@golder.com
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
TM2964-1	TANK	10-DEC-19 15:00	10-DEC-19			22-DEC-19	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	EM_ECOLI_COLQUANT	11-DEC-19			
Aqueous	S	SM5210B-TBOD	12-DEC-19	250mL Plastic		

Total Samples: *1* ***Total Analyses:*** *2*

fins TestAmerica, Buffalo
Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Loureiro/Aman	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136493-23834.1
Client Contact: Sherwood McKenney	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 2
Company: Waste Management				Job #:

Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 6
City: Norridgewock
State, Zip: ME, 04957
Phone:
Email: smckenne@wm.com
Project Name: Crossroads ME/ Event Desc: Semi-Annual Leachate Tank (8,11
Site: Maine

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 48003284
SSOW#:

480-163981 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A - Total Metals ICPMS (Al)	1631E - Mercury	8081B - Heptachlor	8270D - Semivolatiles	350.1, 410.4, 4500_P_E	4500_CL_G - Chlorine, Total Residual	6010C - Total Metals ICP	2340C - Hardness	Cation_Anion - Cation Anion Balance	8260C - Volatiles	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Sol	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	N	N	N	S	N	D	D	N	A	N	N	N		
TANK	12/10/19	1500	G	Water			1	3	2	2	1	1	1	1		3	*	1	1		*Samples taken Back to Katahdin due to short Hold time
TB				Water																	

I - Ice
J - DI Water
K - EDTA
L - EDA
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/10/19 1500	KAS	[signature]	12/11/19 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: #1 2.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Lourciro / Aman	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-136493-23834.2
Client Contact: Sherwood McKenney	Phone: (508) 821-0775	E-Mail: denise.giglia@testamericainc.com		Page: Page 2 of 2
Company: Waste Management				Job #:

Address: WMDSM, Inc- Crossroads Landfill 357 Mercer Road PO BOX 6	Due Date Requested:	Analysis Requested
City: Norridgewock	TAT Requested (days):	
State, Zip: ME, 04957		
Phone:	PO #: Purchase Order Requested	
Email: smckenne@wm.com	WO #:	
Project Name: Crossroads ME/ Event Desc: Semi-Annual Leachate Tank (8,11	Project #: 48003284	
Site: Maine	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	FieldSampling - Field Parameters	9012B - Cyanide, Total	9223B - Escherichia coli	353.2, 353.2_Nitrite, Nitrate_Calc	9040C - pH	1664B - Oil and Grease	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	B	R	N	N	S		
TANK	12/10/19	1500	G	Water			X	1	*	2	1	2		* samples taken back to Katahdin due to short hold time
TB				Water			X							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Katahdin	12/10/19 1500	KAS	Cwallace	12/11/19 1000	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

28/C34

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-53616.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-163981-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 1/2/2020			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME: S/A Leachate Tank	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

LCHG

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK (480-163981-1)	12/10/19	15:00 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12/12/19 1700	DAT BUFFALO	[signature]	12-13-19 930	ETAC
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client ETA Buffalo Site Name _____ Cooler unpacked by:

Cooler Received on 12-13-19 Opened on 12-14-19

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 3.4 °C
   IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC995364
13. Were VOAs on the COC?	Yes	No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
16. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Giglia, Denise L	Carrier Tracking No(s):	COC No: 480-53748.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: denise.giglia@testamericainc.com	State of Origin: Maine	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maine		Job #: 480-163981-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 12/30/2019	Analysis Requested		Preservation Codes:
City: Savannah	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Crossroads ME: S/A Leachate Tank	Project #: 48003284			
Site: Crossroads ME	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3010A Total Metals ICPMS (Al)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TANK (480-163981-1)	12/10/19	15:00 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: Unknown Cirold	Date/Time: 12/18/19 1700	Company: TA	Received by:	Date/Time: 12-19-19 1005	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Crossroads

Site No.:

Sample Point: TANK (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/10/19					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: ✓

Sampling Device: F

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: ✓ — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: ✓ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/Site requirements:		+/- 0.2	+/- 3%			+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/10/19	7.71	17496	13.1	654	4.2	-332	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Dark Odor: Strong Color: Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 SW Outlook: cloudy Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM procedures (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/10/19	Agustin Lovera	[signature]	CAS
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163981-1

Login Number: 163981
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	KAS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 480-163981-1

Login Number: 163981
List Number: 3
Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah
List Creation: 12/19/19 11:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

Leachate and Underdrain Flow Rate Data and Time Series Plots

PHASE 1, 2, and 3

DATE	SECONDARY LDS						PRIMARY LCS		COMMENTS/ OBSERVATIONS
	FLOW ‖ (gals/day)			Total Dilution Factored Flow (gals/day)	Daily Flow Rate (gals/acre/day)	Monthly Average Daily Flow Rate (gals/acre/day)	FLOW (gals/day)	Daily Flow Rate (gals/acre/day)	
	Phase 1, 2, & 3	*Phase 2 LDS*	*Phase 3 LDS*	*Dilution Factor Is 15% Of Total Flow*	*Estimated Flow Through Primary*	*Estimated Flow Through Primary*	*Phase 1, 2, & 3*	*Phase 1, 2, & 3*	
01-Jan-19	104.00			15.60	1.91		1410.00	173.01	
02-Jan-19	116.00			17.40	2.13		1280.00	157.06	
03-Jan-19	103.00			15.45	1.90		1279.00	156.93	
04-Jan-19	103.00			15.45	1.90		1279.00	156.93	
05-Jan-19	93.00			13.95	1.71		1283.00	157.42	
06-Jan-19	95.00			14.25	1.75		1281.00	157.18	
07-Jan-19	108.00			16.20	1.99		1322.00	162.21	
08-Jan-19	108.00			16.20	1.99		1289.00	158.16	
09-Jan-19	107.00			16.05	1.97		1411.00	173.13	
10-Jan-19	101.00			15.15	1.86		3164.00	388.22	
11-Jan-19	131.00			19.65	2.41		3069.00	376.56	
12-Jan-19	102.00			15.30	1.88		1707.00	209.45	
13-Jan-19	110.00			16.50	2.02		1358.00	166.63	
14-Jan-19	106.00			15.90	1.95		1314.00	161.23	
15-Jan-19	102.00			15.30	1.88		1520.00	186.50	
16-Jan-19	111.00			16.65	2.04		2194.00	269.20	
17-Jan-19	107.00			16.05	1.97		1620.00	198.77	
18-Jan-19	95.00			14.25	1.75		1313.00	161.10	
19-Jan-19	109.00			16.35	2.01		1310.00	160.74	
20-Jan-19	113.00			16.95	2.08		1424.00	174.72	
21-Jan-19	113.00			16.95	2.08		1315.00	161.35	
22-Jan-19	0.00			0.00	0.00		1840.00	225.77	
23-Jan-19	212.00			31.80	3.90		1564.00	191.90	
24-Jan-19	98.00			14.70	1.80		1288.00	158.04	
25-Jan-19	1013.00			151.95	18.64		2194.00	269.20	
26-Jan-19	109.00			16.35	2.01		2504.00	307.24	
27-Jan-19	99.00			14.85	1.82		1649.00	202.33	
28-Jan-19	105.00			15.75	1.93		1720.00	211.04	
29-Jan-19	117.00			17.55	2.15		1444.00	177.18	
30-Jan-19	138.00			20.70	2.54		2194.00	269.20	
31-Jan-19	111.00			16.65	2.04	2.52	1322.00	162.21	
01-Feb-19	98.00			14.70	1.80		1450.00	177.91	
02-Feb-19	107.00			16.05	1.97		1318.00	161.72	
03-Feb-19	105.00			15.75	1.93		1196.00	146.75	
04-Feb-19	97.00			14.55	1.79		3772.00	462.82	
05-Feb-19	109.00			16.35	2.01		4140.00	507.98	
06-Feb-19	98.00			14.70	1.80		1932.00	237.06	
07-Feb-19	100.00			15.00	1.84		2024.00	248.34	
08-Feb-19	90.00			13.50	1.66		1748.00	214.48	
09-Feb-19	126.00			18.90	2.32		1260.00	154.60	
10-Feb-19	115.00			17.25	2.12		1547.00	189.82	
11-Feb-19	374.00			56.10	6.88		1440.00	176.69	
12-Feb-19	107.00			16.05	1.97		1691.00	207.48	
13-Feb-19	100.00			15.00	1.84		1860.00	228.22	
14-Feb-19	104.00			15.60	1.91		2760.00	338.65	
15-Feb-19	109.00			16.35	2.01		1260.00	154.60	
16-Feb-19	114.00			17.10	2.10		1288.00	158.04	
17-Feb-19	104.00			15.60	1.91		1170.00	143.56	
18-Feb-19	104.00			15.60	1.91		1318.00	161.72	
19-Feb-19	99.00			14.85	1.82		1288.00	158.04	
20-Feb-19	106.00			15.90	1.95		1321.00	162.09	
21-Feb-19	102.00			15.30	1.88		1472.00	180.61	
22-Feb-19	0.00			0.00	0.00		1312.00	160.98	
23-Feb-19	100.00			15.00	1.84		0.00	0.00	
24-Feb-19	203.00			30.45	3.74		0.00	0.00	
25-Feb-19	77.00			11.55	1.42		0.00	0.00	
26-Feb-19	104.00			15.60	1.91		0.00	0.00	
27-Feb-19	102.00			15.30	1.88		0.00	0.00	
28-Feb-19	77.00			11.55	1.42	2.06	1472.00	180.61	
01-Mar-19	116.00			17.40	2.13		1530.00	187.73	
02-Mar-19	118.00			17.70	2.17		1157.00	141.96	
03-Mar-19	94.00			14.10	1.73		1564.00	191.90	
04-Mar-19	102.00			15.30	1.88		1892.00	232.15	
05-Mar-19	106.00			15.90	1.95		5096.00	625.28	
06-Mar-19	105.00			15.75	1.93		1325.00	162.58	
07-Mar-19	105.00			15.75	1.93		1183.00	145.15	
08-Mar-19	97.00			14.55	1.79		1186.00	145.52	
09-Mar-19	109.00			16.35	2.01		1184.00	145.28	
10-Mar-19	100.00			15.00	1.84		1183.00	145.15	
11-Mar-19	99.00			14.85	1.82		1260.00	154.60	
12-Mar-19	99.00			14.85	1.82		1157.00	141.96	
13-Mar-19	0.00			0.00	0.00		9959.00	1221.96	
14-Mar-19	93.00			13.95	1.71		6536.00	801.96	
15-Mar-19	222.00			33.30	4.09		1184.00	145.28	
16-Mar-19	113.00			16.95	2.08		1177.00	144.42	
17-Mar-19	0.00			0.00	0.00		1174.00	144.05	
18-Mar-19	110.00			16.50	2.02		1196.00	146.75	
19-Mar-19	105.00			15.75	1.93		1174.00	144.05	
20-Mar-19	99.00			14.85	1.82		1104.00	135.46	
21-Mar-19	106.00			15.90	1.95		1175.00	144.17	
22-Mar-19	192.00			28.80	3.53		1181.00	144.91	
23-Mar-19	0.00			0.00	0.00		1174.00	144.05	
24-Mar-19	102.00			15.30	1.88		1044.00	128.10	
25-Mar-19	210.00			31.50	3.87		1177.00	144.42	
26-Mar-19	105.00			15.75	1.93		1320.00	161.96	
27-Mar-19	102.00			15.30	1.88		1391.00	170.67	
28-Mar-19	104.00			15.60	1.91		1306.00	160.25	
29-Mar-19	114.00			17.10	2.10		2291.00	281.10	
30-Mar-19	92.00			13.80	1.69		1176.00	144.29	
31-Mar-19	115.00			17.25	2.12	1.92	1182.00	145.03	
01-Apr-19	193.00			28.95	3.55		1319.00	161.84	
02-Apr-19	127.00			19.05	2.34		2137.00	262.21	
03-Apr-19	211.00			31.65	3.88		1723.00	211.41	
04-Apr-19	141.00			21.15	2.60		2773.00	340.25	
05-Apr-19	101.00			15.15	1.86		1719.00	210.92	
06-Apr-19	204.00			30.60	3.75		2377.00	291.66	
07-Apr-19	104.00			15.60	1.91		1177.00	144.42	
08-Apr-19	136.00			20.40	2.50		1176.00	144.29	
09-Apr-19	179.00			26.85	3.29		2732.00	335.21	
10-Apr-19	92.00			13.80	1.69		1178.00	144.54	
11-Apr-19	107.00			16.05	1.97		1176.00	144.29	
12-Apr-19	111.00			16.65	2.04		1305.00	160.12	
13-Apr-19	110.00			16.50	2.02		1308.00	160.49	
14-Apr-19	121.00			18.15	2.23		1209.00	148.34	
15-Apr-19	154.00			23.10	2.83		2695.00	330.67	
16-Apr-19	211.00			31.65	3.88		4530.00	555.83	
17-Apr-19	100.00			15.00	1.84		1173.00	143.93	
18-Apr-19	170.41			25.56	3.14		1168.92	143.43	
19-Apr-19	165.99			24.90	3.05		1684.64	206.70	
20-Apr-19	170.34			25.55	3.14		1166.28	143.10	
21-Apr-19	170.57			25.58	3.14		1294.04	158.78	
22-Apr-19	171.29			25.69	3.15		1292.14	158.54	

PHASE 1, 2, and 3

DATE	SECONDARY LDS						PRIMARY LCS		COMMENTS/ OBSERVATIONS
	FLOW ‖ (gals/day)			Total Dilution Factored Flow (gals/day)	Daily Flow Rate (gals/acre/day)	Monthly Average Daily Flow Rate (gals/acre/day)	FLOW (gals/day)	Daily Flow Rate (gals/acre/day)	
	Phase 1, 2, & 3	*Phase 2 LDS*	*Phase 3 LDS*	*Dilution Factor Is 15% Of Total Flow*	*Estimated Flow Through Primary*	*Estimated Flow Through Primary*	*Phase 1, 2, & 3*	*Phase 1, 2, & 3*	
23-Apr-19	170.12			25.52	3.13		1293.24	158.68	
24-Apr-19	334.07			50.11	6.15		2699.45	331.22	
25-Apr-19	233.32			35.00	4.29		1559.36	191.33	
26-Apr-19	170.00			25.50	3.13		1297.85	159.24	
27-Apr-19	170.13			25.52	3.13		1427.34	175.13	
28-Apr-19	168.20			25.23	3.10		1166.12	143.08	
29-Apr-19	168.80			25.32	3.11		1314.98	161.35	
30-Apr-19	169.23			25.38	3.11	2.97	1420.56	174.30	
01-May-19	168.22			25.23	3.10		1298.73	159.35	
02-May-19	170.82			25.62	3.14		1294.49	158.83	
03-May-19	168.60			25.29	3.10		1395.22	171.19	
04-May-19	168.65			25.30	3.10		1294.18	158.79	
05-May-19	170.17			25.52	3.13		1333.39	163.61	
06-May-19	169.81			25.47	3.13		1296.98	159.14	
07-May-19	170.29			25.54	3.13		1446.85	177.53	
08-May-19	168.36			25.25	3.10		1295.35	158.94	
09-May-19	0.00			0.00	0.00		1337.14	164.07	
10-May-19	0.00			0.00	0.00		0.00	0.00	
11-May-19	0.00			0.00	0.00		1427.68	175.18	
12-May-19	169.92			25.49	3.13		1301.40	159.68	
13-May-19	168.09			25.21	3.09		1390.62	170.63	
14-May-19	169.78			25.47	3.12		1819.30	223.23	
15-May-19	169.63			25.44	3.12		1296.52	159.08	
16-May-19	169.78			25.47	3.12		1428.92	175.33	
17-May-19	189.00			28.35	3.48		1299.49	159.45	
18-May-19	168.21			25.23	3.10		1299.51	159.45	
19-May-19	170.63			25.59	3.14		1430.65	175.54	
20-May-19	171.18			25.68	3.15		1300.08	159.52	
21-May-19	169.59			25.44	3.12		1428.45	175.27	
22-May-19	169.68			25.45	3.12		1298.31	159.30	
23-May-19	171.58			25.74	3.16		1300.56	159.58	
24-May-19	169.93			25.49	3.13		1429.61	175.41	
25-May-19	169.44			25.42	3.12		1301.21	159.66	
26-May-19	171.05			25.66	3.15		1299.97	159.51	
27-May-19	172.62			25.89	3.18		1431.64	175.66	
28-May-19	185.38			27.81	3.41		1359.85	166.85	
29-May-19	169.84			25.48	3.13		1310.88	160.84	
30-May-19	170.90			25.63	3.15		1309.80	160.71	
31-May-19	169.63			25.44	3.12	2.84	1439.51	176.63	
01-Jun-19	170.56			25.58	3.14		1305.54	160.19	
02-Jun-19	169.86			25.48	3.13		1374.32	168.63	
03-Jun-19	169.90			25.49	3.13		1307.19	160.39	
04-Jun-19	171.05			25.66	3.15		1421.71	174.44	
05-Jun-19	338.66			50.80	6.23		1363.69	167.32	
06-Jun-19	170.32			25.55	3.13		1436.28	176.23	
07-Jun-19	204.00			30.60	3.75		1355.78	166.35	
08-Jun-19	164.88			24.73	3.03		1305.24	160.15	
09-Jun-19	169.18			25.38	3.11		1304.48	160.06	
10-Jun-19	169.93			25.49	3.13		1305.18	160.14	
11-Jun-19	340.08			51.01	6.26		1430.97	175.58	
12-Jun-19	169.36			25.40	3.12		1338.87	164.28	
13-Jun-19	170.47			25.57	3.14		1302.63	159.83	
14-Jun-19	169.73			25.46	3.12		1317.26	161.63	
15-Jun-19	169.51			25.43	3.12		1419.16	174.13	
16-Jun-19	169.61			25.44	3.12		1303.64	159.96	
17-Jun-19	169.13			25.37	3.11		1302.59	159.83	
18-Jun-19	170.08			25.51	3.13		1433.39	175.88	
19-Jun-19	169.51			25.43	3.12		1305.63	160.20	
20-Jun-19	169.81			25.47	3.13		1435.56	176.14	
21-Jun-19	169.15			25.37	3.11		1302.67	159.84	
22-Jun-19	169.00			25.35	3.11		1300.36	159.55	
23-Jun-19	20.21			3.03	0.37		527.70	64.75	
24-Jun-19	130.00			19.50	2.39		1410.00	173.01	
25-Jun-19	168.44			25.27	3.10		1306.81	160.34	
26-Jun-19	170.32			25.55	3.13		1223.54	150.13	
27-Jun-19	170.49			25.57	3.14		1171.82	143.78	
28-Jun-19	168.74			25.31	3.11		1301.08	159.64	
29-Jun-19	170.17			25.53	3.13		1299.02	159.39	
30-Jun-19	168.56			25.28	3.10	3.23	1244.72	152.73	
01-Jul-19	170.06			25.51	3.13		1301.69	159.72	
02-Jul-19	167.67			25.15	3.09		1307.08	160.38	
03-Jul-19	169.54			25.43	3.12		1299.75	159.48	
04-Jul-19	0.00			0.00	0.00		1297.70	159.23	
05-Jul-19	169.88			25.48	3.13		1200.20	147.26	
06-Jul-19	169.98			25.50	3.13		1298.65	159.34	
07-Jul-19	169.91			25.49	3.13		1322.32	162.25	
08-Jul-19	168.33			25.25	3.10		1169.05	143.44	
09-Jul-19	169.62			25.44	3.12		1326.38	162.75	
10-Jul-19	170.11			25.52	3.13		1301.81	159.73	
11-Jul-19	170.17			25.53	3.13		1166.87	143.17	
12-Jul-19	168.59			25.29	3.10		1456.37	178.70	
13-Jul-19	319.85			47.98	5.89		1347.63	165.35	
14-Jul-19	170.08			25.51	3.13		1296.92	159.13	
15-Jul-19	171.12			25.67	3.15		1297.38	159.19	
16-Jul-19	170.62			25.59	3.14		1296.56	159.09	
17-Jul-19	166.50			24.98	3.06		1195.89	146.74	
18-Jul-19	169.29			25.39	3.12		1297.87	159.25	
19-Jul-19	170.61			25.59	3.14		1295.70	158.98	
20-Jul-19	169.39			25.41	3.12		1294.83	158.87	
21-Jul-19	170.82			25.62	3.14		1197.93	146.98	
22-Jul-19	170.00			25.50	3.13		1171.00	143.68	
23-Jul-19	169.40			25.41	3.12		1378.61	169.15	
24-Jul-19	172.15			25.82	3.17		1180.02	144.79	
25-Jul-19	169.65			25.45	3.12		1309.22	160.64	
26-Jul-19	0.00			0.00	0.00		1181.58	144.98	
27-Jul-19	169.12			25.37	3.11		1307.92	160.48	
28-Jul-19	173.28			25.99	3.19		1309.42	160.67	
29-Jul-19	181.68			27.25	3.34		1143.04	140.25	
30-Jul-19	169.42			25.41	3.12		1315.51	161.41	
31-Jul-19	167.63			25.14	3.09	3.02	1311.55	160.93	
01-Aug-19	169.64			25.45	3.12		1179.45	144.72	
02-Aug-19	169.15			25.37	3.11		1309.27	160.65	
03-Aug-19	170.37			25.56	3.14		1179.20	144.69	
04-Aug-19	169.24			25.39	3.11		1308.29	160.53	
05-Aug-19	169.07			25.36	3.11		1176.84	144.40	
06-Aug-19	0.00			0.00	0.00		1307.47	160.43	
07-Aug-19	169.67			25.45	3.12		1308.05	160.50	
08-Aug-19	169.13			25.37	3.11		1193.73	146.47	
09-Aug-19	175.15			26.27	3.22		1271.67	156.03	
10-Aug-19	0.00			0.00	0.00		0.00	0.00	
11-Aug-19	0.00			0.00	0.00		0.00	0.00	
12-Aug-19	511.50			76.73	9.41		2586.39	317.35	

PHASE 1, 2, and 3

DATE	SECONDARY LDS						PRIMARY LCS		COMMENTS/ OBSERVATIONS
	FLOW ‖ (gals/day)			Total Dilution Factored Flow (gals/day)	Daily Flow Rate (gals/acre/day)	Monthly Average Daily Flow Rate (gals/acre/day)	FLOW (gals/day)	Daily Flow Rate (gals/acre/day)	
	Phase 1, 2, & 3	*Phase 2 LDS*	*Phase 3 LDS*	*Dilution Factor Is 15% Of Total Flow*	*Estimated Flow Through Primary*	*Estimated Flow Through Primary*	*Phase 1, 2, & 3*	*Phase 1, 2, & 3*	
13-Aug-19	169.51			25.43	3.12		1162.99	142.70	
14-Aug-19	169.84			25.48	3.13		1256.64	154.19	
15-Aug-19	174.97			26.25	3.22		1291.86	158.51	
16-Aug-19	185.11			27.77	3.41		1170.71	143.65	
17-Aug-19	168.96			25.34	3.11		1287.14	157.93	
18-Aug-19	172.98			25.95	3.18		1179.39	144.71	
19-Aug-19	169.21			25.38	3.11		1290.17	158.30	
20-Aug-19	194.51			29.18	3.58		1192.00	146.26	
21-Aug-19	173.68			26.05	3.20		1290.17	158.30	
22-Aug-19	171.24			25.69	3.15		1288.07	158.05	
23-Aug-19	169.59			25.44	3.12		1285.62	157.74	
24-Aug-19	173.03			25.95	3.18		1155.53	141.78	
25-Aug-19	168.16			25.22	3.10		1282.87	157.41	
26-Aug-19	169.55			25.43	3.12		1169.73	143.52	
27-Aug-19	167.10			25.07	3.08		1284.52	157.61	
28-Aug-19	168.52			25.28	3.10		1286.29	157.83	
29-Aug-19	169.24			25.39	3.11		1158.11	142.10	
30-Aug-19	0.00			0.00	0.00		1272.98	156.19	
31-Aug-19	168.36			25.25	3.10	2.95	1286.00	157.79	
01-Sep-19	168.13			25.22	3.09		1155.84	141.82	
02-Sep-19	0.00			0.00	0.00		1630.00	200.00	
03-Sep-19	133.00			19.95	2.45		647.00	79.39	
04-Sep-19	176.80			26.52	3.25		1293.90	158.76	
05-Sep-19	169.00			25.35	3.11		1157.20	141.99	
06-Sep-19	0.00			0.00	0.00		906.10	111.18	
07-Sep-19	282.60			42.39	5.20		1624.80	199.36	
08-Sep-19	202.70			30.41	3.73		160.70	19.72	
09-Sep-19	515.40			77.31	9.49		0.00	0.00	
10-Sep-19	0.00			0.00	0.00		2662.50	326.69	
11-Sep-19	0.00			0.00	0.00		1291.30	158.44	
12-Sep-19	0.00			0.00	0.00		1158.60	142.16	
13-Sep-19	0.00			0.00	0.00		1155.70	141.80	
14-Sep-19	0.00			0.00	0.00		1285.10	157.68	
15-Sep-19	0.00			0.00	0.00		1157.30	142.00	
16-Sep-19	0.00			0.00	0.00		1156.10	141.85	
17-Sep-19	1251.30			187.70	23.03		1251.26	153.53	
18-Sep-19	1159.40			173.91	21.34		1159.40	142.26	
19-Sep-19	176.08			26.41	3.24		1159.59	142.28	
20-Sep-19	171.09			25.66	3.15		2038.53	250.13	
21-Sep-19	168.69			25.30	3.10		1278.57	156.88	
22-Sep-19	197.06			29.56	3.63		1167.10	143.20	
23-Sep-19	172.62			25.89	3.18		1286.21	157.82	
24-Sep-19	177.25			26.59	3.26		1155.80	141.82	
25-Sep-19	169.07			25.36	3.11		1284.26	157.58	
26-Sep-19	169.62			25.44	3.12		1157.99	142.08	
27-Sep-19	167.70			25.16	3.09		1285.85	157.77	
28-Sep-19	169.56			25.43	3.12		1158.43	142.14	
29-Sep-19	169.12			25.37	3.11		1287.58	157.99	
30-Sep-19	0.00			0.00	0.00	3.66	1158.39	142.13	
01-Oct-19	226.81			34.02	4.17		1235.93	151.65	
02-Oct-19	184.24			27.64	3.39		1290.04	158.29	
03-Oct-19	181.42			27.21	3.34		1160.26	142.36	
04-Oct-19	180.53			27.08	3.32		1160.75	142.42	
05-Oct-19	168.96			25.34	3.11		1289.61	158.23	
06-Oct-19	172.33			25.85	3.17		1158.89	142.20	
07-Oct-19	172.98			25.95	3.18		1289.51	158.22	
08-Oct-19	0.00			0.00	0.00		1158.85	142.19	
09-Oct-19	167.05			25.06	3.07		1288.05	158.04	
10-Oct-19	173.47			26.02	3.19		1158.25	142.12	
11-Oct-19	172.75			25.91	3.18		1285.87	157.78	
12-Oct-19	169.10			25.36	3.11		1285.77	157.76	
13-Oct-19	169.08			25.36	3.11		1196.68	146.83	
14-Oct-19	176.65			26.50	3.25		1288.21	158.06	
15-Oct-19	169.06			25.36	3.11		1159.31	142.25	
16-Oct-19	169.86			25.48	3.13		1287.57	157.98	
17-Oct-19	71.94			10.79	1.32		1285.98	157.79	
18-Oct-19	174.97			26.25	3.22		1285.59	157.74	
19-Oct-19	175.94			26.39	3.24		1156.63	141.92	
20-Oct-19	169.23			25.39	3.11		1285.58	157.74	
21-Oct-19	169.69			25.45	3.12		1285.21	157.69	
22-Oct-19	0.00			0.00	0.00		1157.77	142.06	
23-Oct-19	169.13			25.37	3.11		1284.20	157.57	
24-Oct-19	174.17			26.13	3.21		1283.84	157.53	
25-Oct-19	168.98			25.35	3.11		1156.80	141.94	
26-Oct-19	174.44			26.17	3.21		1283.12	157.44	
27-Oct-19	168.55			25.28	3.10		1281.15	157.20	
28-Oct-19	175.14			26.27	3.22		1286.08	157.80	
29-Oct-19	169.18			25.38	3.11		1157.53	142.03	
30-Oct-19	169.27			25.39	3.12		1284.87	157.65	
31-Oct-19	169.77			25.47	3.12	2.94	1285.97	157.79	
01-Nov-19	173.00			25.95	3.18		803.82	98.63	
02-Nov-19	174.00			26.10	3.20		1291.00	158.40	
03-Nov-19	169.24			25.39	3.11		1284.98	157.67	
04-Nov-19	195.55			29.33	3.60		1156.01	141.84	
05-Nov-19	182.12			27.32	3.35		1283.87	157.53	
06-Nov-19	168.51			25.28	3.10		1281.76	157.27	
07-Nov-19	177.72			26.66	3.27		1284.18	157.57	
08-Nov-19	0.00			0.00	0.00		1284.43	157.60	
09-Nov-19	168.11			25.22	3.09		1284.53	157.61	
10-Nov-19	167.34			25.10	3.08		1283.06	157.43	
11-Nov-19	171.79			25.77	3.16		1283.82	157.52	
12-Nov-19	171.16			25.67	3.15		1280.99	157.18	
13-Nov-19	177.60			26.64	3.27		1274.08	156.33	
14-Nov-19	178.30			26.75	3.28		1280.80	157.15	
15-Nov-19	345.60			51.84	6.36		1959.02	240.37	
16-Nov-19	169.63			25.45	3.12		1288.99	158.16	
17-Nov-19	175.48			26.32	3.23		1315.65	161.43	
18-Nov-19	171.44			25.72	3.16		1286.58	157.86	
19-Nov-19	182.16			27.32	3.35		1282.23	157.33	
20-Nov-19	169.93			25.49	3.13		1282.64	157.38	
21-Nov-19	168.96			25.34	3.11		1283.94	157.54	
22-Nov-19	168.35			25.25	3.10		1283.43	157.48	
23-Nov-19	168.62			25.29	3.10		1284.81	157.65	
24-Nov-19	182.87			27.43	3.37		1283.77	157.52	
25-Nov-19	0.00			0.00	0.00		1282.43	157.35	
26-Nov-19	174.67			26.20	3.21		1284.24	157.58	
27-Nov-19	173.77			26.07	3.20		1336.17	163.95	
28-Nov-19	170.12			25.52	3.13		1283.08	157.43	
29-Nov-19	177.15			26.57	3.26		1284.72	157.63	
30-Nov-19	167.17			25.08	3.08	3.09	1285.24	157.70	
01-Dec-19	169.21			25.38	3.11		1285.83	157.77	
02-Dec-19	169.74			25.46	3.12		1281.98	157.30	

PHASE 1, 2, and 3

DATE	SECONDARY LDS						PRIMARY LCS		COMMENTS/ OBSERVATIONS
	FLOW ‖ (gals/day)			Total Dilution Factored Flow (gals/day)	Daily Flow Rate (gals/acre/day)	Monthly Average Daily Flow Rate (gals/acre/day)	FLOW (gals/day)	Daily Flow Rate (gals/acre/day)	
	Phase 1, 2, & 3	*Phase 2 LDS*	*Phase 3 LDS*	*Dilution Factor Is 15% Of Total Flow*	*Estimated Flow Through Primary*	*Estimated Flow Through Primary*	*Phase 1, 2, & 3*	*Phase 1, 2, & 3*	
03-Dec-19	169.67			25.45	3.12		1285.09	157.68	
04-Dec-19	0.00			0.00	0.00		1284.43	157.60	
05-Dec-19	171.55			25.73	3.16		1283.48	157.48	
06-Dec-19	176.66			26.50	3.25		1284.26	157.58	
07-Dec-19	169.26			25.39	3.12		1284.75	157.64	
08-Dec-19	167.78			25.17	3.09		1283.24	157.45	
09-Dec-19	169.85			25.48	3.13		1283.85	157.53	
10-Dec-19	169.36			25.40	3.12		1282.66	157.38	
11-Dec-19	0.00			0.00	0.00		1240.72	152.24	
12-Dec-19	167.65			25.15	3.09		1284.49	157.61	
13-Dec-19	167.56			25.13	3.08		1285.30	157.71	
14-Dec-19	167.86			25.18	3.09		1284.33	157.59	
15-Dec-19	169.43			25.41	3.12		1282.19	157.32	
16-Dec-19	168.11			25.22	3.09		1282.24	157.33	
17-Dec-19	167.83			25.17	3.09		1282.93	157.41	
18-Dec-19	169.01			25.35	3.11		1287.90	158.02	
19-Dec-19	169.00			25.35	3.11		128.30	15.74	
20-Dec-19	182.00			27.30	3.35		769.00	94.36	
21-Dec-19	169.24			25.39	3.11		1283.19	157.45	
22-Dec-19	172.60			25.89	3.18		1282.48	157.36	
23-Dec-19	170.61			25.59	3.14		1282.04	157.31	
24-Dec-19	167.42			25.11	3.08		1282.84	157.40	
25-Dec-19	172.78			25.92	3.18		1281.17	157.20	
26-Dec-19	168.63			25.29	3.10		1282.47	157.36	
27-Dec-19	168.89			25.33	3.11		1282.10	157.31	
28-Dec-19	0.00			0.00	0.00		1282.58	157.37	
29-Dec-19	169.33			25.40	3.12		1281.16	157.20	
30-Dec-19	167.89			25.18	3.09		1281.31	157.22	
31-Dec-19	171.19			25.68	3.15	2.83	1411.34	173.17	

PHASE 7

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	0	0.00	0	0.00		
02-Jan-19	2360	524.44	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	2350	522.22	0	0.00		
05-Jan-19	0	0.00	0	0.00		
06-Jan-19	2320	515.56	0	0.00		
07-Jan-19	0	0.00	0	0.00		
08-Jan-19	2640	586.67	0	0.00		
09-Jan-19	2250	500.00	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	2440	542.22	72	16.00		
14-Jan-19	0	0.00	0	0.00		
15-Jan-19	2610	580.00	0	0.00		
16-Jan-19	0	0.00	0	0.00		
17-Jan-19	2480	551.11	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	2570	571.11	0	0.00		
20-Jan-19	2390	531.11	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	1480	328.89	0	0.00		
23-Jan-19	1550	344.44	0	0.00		
24-Jan-19	0	0.00	0	0.00		
25-Jan-19	4200	933.33	0	0.00		
26-Jan-19	2140	475.56	0	0.00		
27-Jan-19	0	0.00	0	0.00		
28-Jan-19	2450	544.44	0	0.00		
29-Jan-19	0	0.00	0	0.00		
30-Jan-19	2080	462.22	0	0.00		
31-Jan-19	2030	451.11	0	0.00	0.52	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	2470	548.89	0	0.00		
03-Feb-19	1790	397.78	0	0.00		
04-Feb-19	850	188.89	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	0	0.00	0	0.00		
08-Feb-19	1630	362.22	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	0	0.00	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	0	0.00	0	0.00		
18-Feb-19	13460	2991.11	1169	259.84		
19-Feb-19	2070	460.00	0	0.00		
20-Feb-19	1360	302.22	20	4.45		
21-Feb-19	0	0.00	0	0.00		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	2320	515.56	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	2420	537.78	0	0.00		
27-Feb-19	2510	557.78	0	0.00		
28-Feb-19	0	0.00	0	0.00	9.11	
01-Mar-19	2550	566.67	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	2660	591.11	0	0.00		
04-Mar-19	0	0.00	0	0.00		
05-Mar-19	2580	573.33	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	2560	568.89	0	0.00		
08-Mar-19	2540	564.44	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	2730	606.67	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	2450	544.44	0	0.00		
13-Mar-19	0	0.00	0	0.00		
14-Mar-19	2740	608.89	0	0.00		
15-Mar-19	0	0.00	0	0.00		
16-Mar-19	2630	584.44	0	0.00		
17-Mar-19	2580	573.33	0	0.00		
18-Mar-19	0	0.00	0	0.00		
19-Mar-19	2750	611.11	0	0.00		
20-Mar-19	0	0.00	0	0.00		
21-Mar-19	2650	588.89	0	0.00		
22-Mar-19	2730	606.67	0	0.00		
23-Mar-19	3570	793.33	0	0.00		
24-Mar-19	1330	295.56	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	3250	722.22	0	0.00		
27-Mar-19	0	0.00	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	2250	500.00	0	0.00		
31-Mar-19	2260	502.22	0	0.00	0.00	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	2290	508.89	0	0.00		
03-Apr-19	2280	506.67	0	0.00		
04-Apr-19	2360	524.44	216	48.07		
05-Apr-19	2250	500.00	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	2350	522.22	0	0.00		
08-Apr-19	2250	500.00	0	0.00		
09-Apr-19	2290	508.89	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	2200	488.89	0	0.00		
12-Apr-19	2200	488.89	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	2230	495.56	0	0.00		
15-Apr-19	2190	486.67	0	0.00		
16-Apr-19	2260	502.22	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	2310	513.33	0	0.00		
19-Apr-19	2090	464.44	0	0.00		
20-Apr-19	2200	488.89	0	0.00		
21-Apr-19	2180	484.44	0	0.00		
22-Apr-19	2210	491.11	0	0.00		

PHASE 7

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	2180	484.44	0	0.00		
25-Apr-19	2200	488.89	0	0.00		
26-Apr-19	2230	495.56	0	0.00		
27-Apr-19	2210	491.11	0	0.00		
28-Apr-19	2200	488.89	0	0.00		
29-Apr-19	910	202.22	0	0.00		
30-Apr-19	1400	311.11	0	0.00	1.60	
01-May-19	2200	488.89	0	0.00		
02-May-19	2260	502.22	0	0.00		
03-May-19	2210	491.11	0	0.00		
04-May-19	2210	491.11	0	0.00		
05-May-19	2310	513.33	0	0.00		
06-May-19	0	0.00	0	0.00		
07-May-19	2250	500.00	0	0.00		
08-May-19	2250	500.00	0	0.00		
09-May-19	2230	495.56	0	0.00		
10-May-19	2220	493.33	0	0.00		
11-May-19	2250	500.00	0	0.00		
12-May-19	2290	508.89	0	0.00		
13-May-19	2290	508.89	0	0.00		
14-May-19	2250	500.00	0	0.00		
15-May-19	2280	506.67	0	0.00		
16-May-19	2250	500.00	0	0.00		
17-May-19	2220	493.33	0	0.00		
18-May-19	2280	506.67	0	0.00		
19-May-19	2250	500.00	0	0.00		
20-May-19	2280	506.67	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	2280	506.67	0	0.00		
23-May-19	2270	504.44	0	0.00		
24-May-19	2170	482.22	0	0.00		
25-May-19	2270	504.44	0	0.00		
26-May-19	2150	477.78	0	0.00		
27-May-19	2250	500.00	631	140.12		
28-May-19	2270	504.44	0	0.00		
29-May-19	2240	497.78	0	0.00		
30-May-19	2290	508.89	0	0.00		
31-May-19	2270	504.44	0	0.00	4.52	
01-Jun-19	2250	500.00	0	0.00		
02-Jun-19	2260	502.22	0	0.00		
03-Jun-19	2260	502.22	0	0.00		
04-Jun-19	2260	502.22	0	0.00		
05-Jun-19	2280	506.67	0	0.00		
06-Jun-19	1870	415.56	0	0.00		
07-Jun-19	560	124.44	0	0.00		
08-Jun-19	2290	508.89	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	2260	502.22	0	0.00		
11-Jun-19	2260	502.22	0	0.00		
12-Jun-19	2280	506.67	41	9.02		
13-Jun-19	2210	491.11	0	0.00		
14-Jun-19	2210	491.11	0	0.00		
15-Jun-19	2220	493.33	0	0.00		
16-Jun-19	2230	495.56	0	0.00		
17-Jun-19	2220	493.33	0	0.00		
18-Jun-19	2210	491.11	0	0.00		
19-Jun-19	2180	484.44	0	0.00		
20-Jun-19	2060	457.78	0	0.00		
21-Jun-19	2200	488.89	0	0.00		
22-Jun-19	2210	491.11	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	3330	740.00	0	0.00		
25-Jun-19	2080	462.22	0	0.00		
26-Jun-19	2020	448.89	0	0.00		
27-Jun-19	2400	533.33	0	0.00		
28-Jun-19	2460	546.67	0	0.00		
29-Jun-19	2430	540.00	0	0.00		
30-Jun-19	2630	584.44	0	0.00	0.30	
01-Jul-19	2420	537.78	0	0.00		
02-Jul-19	2450	544.44	0	0.00		
03-Jul-19	2350	522.22	0	0.00		
04-Jul-19	2360	524.44	0	0.00		
05-Jul-19	2370	526.67	0	0.00		
06-Jul-19	0	0.00	0	0.00		
07-Jul-19	2400	533.33	0	0.00		
08-Jul-19	1670	371.11	0	0.00		
09-Jul-19	910	202.22	0	0.00		
10-Jul-19	2490	553.33	0	0.00		
11-Jul-19	2450	544.44	0	0.00		
12-Jul-19	2450	544.44	0	0.00		
13-Jul-19	1210	268.89	319	70.82		
14-Jul-19	2460	546.67	0	0.00		
15-Jul-19	2410	535.56	0	0.00		
16-Jul-19	2390	531.11	0	0.00		
17-Jul-19	0	0.00	0	0.00		
18-Jul-19	2360	524.44	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	2330	517.78	0	0.00		
21-Jul-19	2390	531.11	0	0.00		
22-Jul-19	2440	542.22	0	0.00		
23-Jul-19	2380	528.89	0	0.00		
24-Jul-19	0	0.00	0	0.00		
25-Jul-19	2420	537.78	0	0.00		
26-Jul-19	3370	748.89	88	19.49		
27-Jul-19	0	0.00	0	0.00		
28-Jul-19	2380	528.89	0	0.00		
29-Jul-19	2360	524.44	0	0.00		
30-Jul-19	2150	477.78	0	0.00		
31-Jul-19	2170	482.22	0	0.00	2.91	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	2130	473.33	0	0.00		
03-Aug-19	2130	473.33	0	0.00		
04-Aug-19	2120	471.11	0	0.00		
05-Aug-19	2150	477.78	0	0.00		
06-Aug-19	2180	484.44	0	0.00		
07-Aug-19	2090	464.44	0	0.00		
08-Aug-19	2130	473.33	0	0.00		
09-Aug-19	0	0.00	0	0.00		
10-Aug-19	0	0.00	0	0.00		
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	4970	1104.44	19	4.29		

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	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
13-Aug-19	2180	484.44	0	0.00		
14-Aug-19	2140	475.56	0	0.00		
15-Aug-19	2110	468.89	0	0.00		
16-Aug-19	2160	480.00	0	0.00		
17-Aug-19	2090	464.44	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	2120	471.11	0	0.00		
20-Aug-19	2780	617.78	0	0.00		
21-Aug-19	2130	473.33	0	0.00		
22-Aug-19	2130	473.33	0	0.00		
23-Aug-19	2120	471.11	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	2150	477.78	0	0.00		
26-Aug-19	2720	604.44	0	0.00		
27-Aug-19	2147	477.11	0	0.00		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	2123	471.78	0	0.00		
30-Aug-19	2140	475.56	0	0.00		
31-Aug-19	2160	480.00	187	41.56	1.48	
01-Sep-19	0	0.00	0	0.00		
02-Sep-19	2143	476.22	0	0.00		
03-Sep-19	2134	474.22	0	0.00		
04-Sep-19	2126	472.49	0	0.00		
05-Sep-19	5700	1266.62	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	4269	948.60	0	0.00		
11-Sep-19	2183	485.18	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	2163	480.73	0	0.00		
14-Sep-19	2114	469.80	0	0.00		
15-Sep-19	2132	473.76	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	2165	481.04	0	0.00		
18-Sep-19	2158	479.56	0	0.00		
19-Sep-19	2105	467.79	0	0.00		
20-Sep-19	0	0.00	0	0.00		
21-Sep-19	2145	476.60	0	0.00		
22-Sep-19	2401	533.66	0	0.00		
23-Sep-19	2090	464.40	0	0.00		
24-Sep-19	2132	473.76	0	0.00		
25-Sep-19	2119	470.81	0	0.00		
26-Sep-19	2089	464.30	0	0.00		
27-Sep-19	2128	472.95	0	0.00		
28-Sep-19	2091	464.73	0	0.00		
29-Sep-19	2114	469.68	0	0.00		
30-Sep-19	2103	467.26	0	0.00	0.00	
01-Oct-19	2133	473.93	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	2153	478.39	0	0.00		
04-Oct-19	2084	463.20	0	0.00		
05-Oct-19	2122	471.49	0	0.00		
06-Oct-19	2091	464.66	0	0.00		
07-Oct-19	2074	460.97	0	0.00		
08-Oct-19	2118	470.69	0	0.00		
09-Oct-19	2132	473.77	0	0.00		
10-Oct-19	2100	466.71	159	35.40		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	2091	464.56	0	0.00		
13-Oct-19	2165	481.11	0	0.00		
14-Oct-19	2115	470.11	0	0.00		
15-Oct-19	2114	469.68	0	0.00		
16-Oct-19	2095	465.53	0	0.00		
17-Oct-19	1788	397.24	0	0.00		
18-Oct-19	2120	471.05	0	0.00		
19-Oct-19	0	0.00	0	0.00		
20-Oct-19	2086	463.61	0	0.00		
21-Oct-19	2131	473.60	0	0.00		
22-Oct-19	2102	467.01	0	0.00		
23-Oct-19	2127	472.65	0	0.00		
24-Oct-19	2111	469.16	0	0.00		
25-Oct-19	2103	467.32	0	0.00		
26-Oct-19	2138	475.10	0	0.00		
27-Oct-19	2052	455.95	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	2107	468.32	0	0.00		
30-Oct-19	2135	474.34	0	0.00		
31-Oct-19	2089	464.20	0	0.00	1.14	
01-Nov-19	337	74.78	180	40.08		
02-Nov-19	3325	738.96	0	0.00		
03-Nov-19	2095	465.53	0	0.00		
04-Nov-19	2123	471.79	0	0.00		
05-Nov-19	2103	467.29	0	0.00		
06-Nov-19	4208	935.09	0	0.00		
07-Nov-19	2079	462.06	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	2133	474.03	0	0.00		
10-Nov-19	2047	454.89	0	0.00		
11-Nov-19	2127	472.67	0	0.00		
12-Nov-19	2146	476.94	0	0.00		
13-Nov-19	2177	483.84	0	0.00		
14-Nov-19	2106	468.06	0	0.00		
15-Nov-19	2461	546.85	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	2094	465.37	0	0.00		
18-Nov-19	2080	462.23	0	0.00		
19-Nov-19	2106	467.91	0	0.00		
20-Nov-19	2089	464.12	0	0.00		
21-Nov-19	2088	463.89	0	0.00		
22-Nov-19	1989	442.06	0	0.00		
23-Nov-19	2121	471.26	0	0.00		
24-Nov-19	2055	456.63	0	0.00		
25-Nov-19	2101	466.79	0	0.00		
26-Nov-19	2127	472.57	0	0.00		
27-Nov-19	2047	454.92	0	0.00		
28-Nov-19	2201	489.10	0	0.00		
29-Nov-19	2102	467.09	0	0.00		
30-Nov-19	2089	464.12	0	0.00	1.34	
01-Dec-19	2145	476.60	0	0.00		
02-Dec-19	2095	465.56	0	0.00		

PHASE 7

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
03-Dec-19	2046	454.65	0	0.00		
04-Dec-19	2110	468.97	0	0.00		
05-Dec-19	2126	472.51	0	0.00		
06-Dec-19	2101	466.95	253	56.33		
07-Dec-19	2134	474.29	0	0.00		
08-Dec-19	2080	462.17	0	0.00		
09-Dec-19	2088	463.95	0	0.00		
10-Dec-19	0	0.00	0	0.00		
11-Dec-19	2079	462.11	0	0.00		
12-Dec-19	2203	489.66	0	0.00		
13-Dec-19	2096	465.86	0	0.00		
14-Dec-19	2132	473.83	0	0.00		
15-Dec-19	2106	467.95	0	0.00		
16-Dec-19	2137	474.98	0	0.00		
17-Dec-19	4201	933.57	0	0.00		
18-Dec-19	2095	465.65	5	1.13		
19-Dec-19	2120	471.11	0	0.00		
20-Dec-19	2101	466.89	0	0.00		
21-Dec-19	2120	471.08	0	0.00		
22-Dec-19	2098	466.30	0	0.00		
23-Dec-19	2139	475.32	0	0.00		
24-Dec-19	2137	474.78	0	0.00		
25-Dec-19	2081	462.52	0	0.00		
26-Dec-19	2094	465.36	0	0.00		
27-Dec-19	2070	460.10	0	0.00		
28-Dec-19	2120	471.06	0	0.00		
29-Dec-19	2071	460.28	0	0.00		
30-Dec-19	2110	468.85	0	0.00		
31-Dec-19	2146	476.93	0	0.00	1.85	

PHASE 8A

	PRIMARY					
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)				OBSERVATIONS/COMMENTS
01-Jan-19	3571	155.96				
02-Jan-19	2726	119.04				
03-Jan-19	3246	141.73				
04-Jan-19	3263	142.49				
05-Jan-19	3567	155.77				
06-Jan-19	3238	141.40				
07-Jan-19	2614	114.13				
08-Jan-19	3187	139.18				
09-Jan-19	3823	166.96				
10-Jan-19	2060	89.96				
11-Jan-19	3428	149.68				
12-Jan-19	3020	131.89				
13-Jan-19	2706	118.18				
14-Jan-19	2857	124.76				
15-Jan-19	3100	135.35				
16-Jan-19	3306	144.37				
17-Jan-19	2562	111.86				
18-Jan-19	3120	136.23				
19-Jan-19	2835	123.81				
20-Jan-19	3311	144.60				
21-Jan-19	3239	141.44				
22-Jan-19	2468	107.77				
23-Jan-19	2818	123.05				
24-Jan-19	2483	108.43				
25-Jan-19	4271	186.50				
26-Jan-19	3510	153.27				
27-Jan-19	2955	129.05				
28-Jan-19	3015	131.64				
29-Jan-19	3091	134.97				
30-Jan-19	3235	141.25				
31-Jan-19	2981	130.19				
01-Feb-19	2738	119.58				
02-Feb-19	2766	120.81				
03-Feb-19	2745	119.85				
04-Feb-19	3030	132.31				
05-Feb-19	3288	143.58				
06-Feb-19	2726	119.03				
07-Feb-19	2747	119.95				
08-Feb-19	3186	139.12				
09-Feb-19	2925	127.71				
10-Feb-19	2503	109.31				
11-Feb-19	2730	119.21				
12-Feb-19	2738	119.57				
13-Feb-19	3373	147.28				
14-Feb-19	2910	127.09				
15-Feb-19	2905	126.85				
16-Feb-19	3161	138.03				
17-Feb-19	2695	117.67				
18-Feb-19	2647	115.59				
19-Feb-19	2424	105.84				
20-Feb-19	2574	112.41				
21-Feb-19	3087	134.82				
22-Feb-19	2721	118.81				
23-Feb-19	2509	109.54				
24-Feb-19	3231	141.08				
25-Feb-19	3435	149.99				
26-Feb-19	2671	116.62				
27-Feb-19	2421	105.73				
28-Feb-19	2930	127.93				
01-Mar-19	2714	118.51				
02-Mar-19	3021	131.92				
03-Mar-19	2966	129.52				
04-Mar-19	3438	150.12				
05-Mar-19	2926	127.75				
06-Mar-19	2674	116.78				
07-Mar-19	2664	116.33				
08-Mar-19	2418	105.61				
09-Mar-19	2413	105.37				
10-Mar-19	2734	119.40				
11-Mar-19	2970	129.70				
12-Mar-19	2866	125.16				
13-Mar-19	2656	115.97				
14-Mar-19	2771	121.02				
15-Mar-19	3400	148.45				
16-Mar-19	3128	136.58				
17-Mar-19	2888	126.12				
18-Mar-19	2595	113.33				
19-Mar-19	2387	104.23				
20-Mar-19	2444	106.72				
21-Mar-19	2709	118.32				
22-Mar-19	3115	136.02				
23-Mar-19	3106	135.64				
24-Mar-19	2908	126.99				
25-Mar-19	2631	114.91				
26-Mar-19	2848	124.36				
27-Mar-19	2911	127.13				
28-Mar-19	2937	128.27				
29-Mar-19	3500	152.85				
30-Mar-19	2919	127.46				
31-Mar-19	3189	139.27				
01-Apr-19	2944	128.56				
02-Apr-19	2344	102.36				
03-Apr-19	2971	129.76				
04-Apr-19	2666	116.41				
05-Apr-19	2523	110.17				
06-Apr-19	3023	132.00				
07-Apr-19	2667	116.47				
08-Apr-19	3135	136.89				
09-Apr-19	3095	135.15				
10-Apr-19	3297	143.98				
11-Apr-19	2802	122.36				
12-Apr-19	2923	127.63				
13-Apr-19	3195	139.52				
14-Apr-19	3435	150.02				
15-Apr-19	3641	159.00				
16-Apr-19	3314	144.74				
17-Apr-19	2809	122.66				
18-Apr-19	2856	124.72				
19-Apr-19	3444	150.39				
20-Apr-19	3022	131.97				
21-Apr-19	3084	134.67				

PHASE 8A

	PRIMARY					
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)				OBSERVATIONS/COMMENTS
22-Apr-19	3100	135.37				
23-Apr-19	3024	132.05				
24-Apr-19	3280	143.23				
25-Apr-19	2880	125.76				
26-Apr-19	3120	136.24				
27-Apr-19	3042	132.84				
28-Apr-19	3108	135.72				
29-Apr-19	2706	118.17				
30-Apr-19	2856	124.72				
01-May-19	2720	118.78				
02-May-19	2808	122.62				
03-May-19	3198	139.65				
04-May-19	2880	125.76				
05-May-19	2952	128.91				
06-May-19	2664	116.33				
07-May-19	2584	112.84				
08-May-19	2720	118.78				
09-May-19	2652	115.81				
10-May-19	2880	125.76				
11-May-19	2812	122.79				
12-May-19	2662	116.24				
13-May-19	2294	100.17				
14-May-19	2808	122.62				
15-May-19	2652	115.81				
16-May-19	2592	113.19				
17-May-19	2613	114.10				
18-May-19	2484	108.47				
19-May-19	2310	100.87				
20-May-19	2652	115.81				
21-May-19	2691	117.51				
22-May-19	2650	115.72				
23-May-19	2516	109.87				
24-May-19	2613	114.10				
25-May-19	2520	110.04				
26-May-19	2484	108.47				
27-May-19	2613	114.10				
28-May-19	2520	110.04				
29-May-19	2160	94.32				
30-May-19	2691	117.51				
31-May-19	2520	110.04				
01-Jun-19	2448	106.90				
02-Jun-19	2345	102.40				
03-Jun-19	2294	100.17				
04-Jun-19	2211	96.55				
05-Jun-19	2479	108.25				
06-Jun-19	2346	102.45				
07-Jun-19	2304	100.61				
08-Jun-19	2108	92.05				
09-Jun-19	2170	94.76				
10-Jun-19	2312	100.96				
11-Jun-19	2340	102.18				
12-Jun-19	2310	100.87				
13-Jun-19	2211	96.55				
14-Jun-19	2730	119.21				
15-Jun-19	2310	100.87				
16-Jun-19	2170	94.76				
17-Jun-19	2145	93.67				
18-Jun-19	2345	102.40				
19-Jun-19	2415	105.46				
20-Jun-19	2170	94.76				
21-Jun-19	2418	105.59				
22-Jun-19	2520	110.04				
23-Jun-19	759	33.14				
24-Jun-19	2280	99.56				
25-Jun-19	2145	93.67				
26-Jun-19	2310	100.87				
27-Jun-19	2079	90.79				
28-Jun-19	2142	93.54				
29-Jun-19	2343	102.31				
30-Jun-19	2268	99.04				
01-Jul-19	2240	97.82				
02-Jul-19	2205	96.29				
03-Jul-19	2080	90.83				
04-Jul-19	2240	97.82				
05-Jul-19	2040	89.08				
06-Jul-19	2450	106.99				
07-Jul-19	2070	90.39				
08-Jul-19	2244	97.99				
09-Jul-19	2048	89.43				
10-Jul-19	2130	93.01				
11-Jul-19	1836	80.17				
12-Jul-19	2520	110.04				
13-Jul-19	2015	87.99				
14-Jul-19	2040	89.08				
15-Jul-19	2948	128.73				
16-Jul-19	7452	325.41				
17-Jul-19	0	0.00				
18-Jul-19	0	0.00				
19-Jul-19	0	0.00				
20-Jul-19	0	0.00				
21-Jul-19	0	0.00				
22-Jul-19	10850	473.80				
23-Jul-19	2788	121.75				
24-Jul-19	2380	103.93				
25-Jul-19	2805	122.49				
26-Jul-19	2720	118.78				
27-Jul-19	2908	126.97				
28-Jul-19	2851	124.49				
29-Jul-19	2862	124.97				
30-Jul-19	2566	112.05				
31-Jul-19	2871	125.36				
01-Aug-19	2576	112.49				
02-Aug-19	2583	112.78				
03-Aug-19	2574	112.38				
04-Aug-19	2790	121.82				
05-Aug-19	2561	111.81				
06-Aug-19	2548	111.28				
07-Aug-19	2536	110.76				
08-Aug-19	2807	122.57				
09-Aug-19	0	0.00				
10-Aug-19	0	0.00				

PHASE 8A

	PRIMARY					
DATE	*INCREMENTAL FLOW* *(gals)*	*DAILY FLOW RATE* *(gad)*				OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00				
12-Aug-19	4741	207.04				
13-Aug-19	2959	129.21				
14-Aug-19	2486	108.57				
15-Aug-19	2499	109.12				
16-Aug-19	2349	102.59				
17-Aug-19	2291	100.03				
18-Aug-19	2464	107.61				
19-Aug-19	2591	113.14				
20-Aug-19	1404	61.31				
21-Aug-19	2217	96.81				
22-Aug-19	3488	152.31				
23-Aug-19	2544	111.09				
24-Aug-19	2328	101.66				
25-Aug-19	2290	100.00				
26-Aug-19	2557	111.66				
27-Aug-19	2622	114.50				
28-Aug-19	2357	102.93				
29-Aug-19	2709	118.30				
30-Aug-19	2280	99.56				
31-Aug-19	2500	109.17				
01-Sep-19	2454	107.16				
02-Sep-19	2659	116.11				
03-Sep-19	2434	106.29				
04-Sep-19	2839	123.96				
05-Sep-19	2653	115.85				
06-Sep-19	1609	70.25				
07-Sep-19	0	0.00				
08-Sep-19	0	0.00				
09-Sep-19	0	0.00				
10-Sep-19	0	0.00				
11-Sep-19	3416	149.17				
12-Sep-19	2829	123.54				
13-Sep-19	2823	123.27				
14-Sep-19	2772	121.04				
15-Sep-19	2666	116.43				
16-Sep-19	2640	115.29				
17-Sep-19	2791	121.87				
18-Sep-19	2504	109.32				
19-Sep-19	2503	109.29				
20-Sep-19	2823	123.26				
21-Sep-19	2529	110.44				
22-Sep-19	2854	124.62				
23-Sep-19	2893	126.33				
24-Sep-19	3013	131.58				
25-Sep-19	2849	124.41				
26-Sep-19	2793	121.97				
27-Sep-19	2555	111.59				
28-Sep-19	2379	103.87				
29-Sep-19	2398	104.74				
30-Sep-19	2360	103.05				
01-Oct-19	2820	123.12				
02-Oct-19	2677	116.90				
03-Oct-19	2504	109.36				
04-Oct-19	2667	116.47				
05-Oct-19	2365	103.27				
06-Oct-19	2703	118.04				
07-Oct-19	2719	118.75				
08-Oct-19	2761	120.57				
09-Oct-19	2608	113.87				
10-Oct-19	2664	116.34				
11-Oct-19	2660	116.14				
12-Oct-19	2821	123.17				
13-Oct-19	2793	121.97				
14-Oct-19	2667	116.45				
15-Oct-19	2684	117.19				
16-Oct-19	2822	123.23				
17-Oct-19	3236	141.32				
18-Oct-19	2851	124.49				
19-Oct-19	2361	103.11				
20-Oct-19	2342	102.28				
21-Oct-19	2491	108.79				
22-Oct-19	2531	110.51				
23-Oct-19	2845	124.24				
24-Oct-19	2632	114.93				
25-Oct-19	2672	116.69				
26-Oct-19	2666	116.40				
27-Oct-19	2777	121.26				
28-Oct-19	2781	121.43				
29-Oct-19	2586	112.91				
30-Oct-19	2760	120.54				
31-Oct-19	2932	128.05				
01-Nov-19	1064	46.44				
02-Nov-19	3928	171.53				
03-Nov-19	3205	139.94				
04-Nov-19	2656	116.00				
05-Nov-19	2652	115.80				
06-Nov-19	2668	116.49				
07-Nov-19	2662	116.26				
08-Nov-19	2681	117.06				
09-Nov-19	2515	109.81				
10-Nov-19	2815	122.94				
11-Nov-19	2651	115.77				
12-Nov-19	2960	129.24				
13-Nov-19	2608	113.89				
14-Nov-19	2472	107.93				
15-Nov-19	2844	124.20				
16-Nov-19	2281	99.62				
17-Nov-19	2434	106.29				
18-Nov-19	2891	126.24				
19-Nov-19	2936	128.20				
20-Nov-19	2908	126.97				
21-Nov-19	2889	126.15				
22-Nov-19	3115	136.02				
23-Nov-19	2874	125.50				
24-Nov-19	2882	125.86				
25-Nov-19	2998	130.90				
26-Nov-19	2557	111.68				
27-Nov-19	2538	110.85				
28-Nov-19	2881	125.81				
29-Nov-19	2531	110.51				

PHASE 8A

	PRIMARY					
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)				OBSERVATIONS/COMMENTS
30-Nov-19	2746	119.91				
01-Dec-19	2719	118.75				
02-Dec-19	2865	125.12				
03-Dec-19	3201	139.80				
04-Dec-19	3143	137.26				
05-Dec-19	2809	122.64				
06-Dec-19	2524	110.24				
07-Dec-19	2073	90.51				
08-Dec-19	2216	96.78				
09-Dec-19	2732	119.29				
10-Dec-19	3038	132.66				
11-Dec-19	2591	113.14				
12-Dec-19	2367	103.36				
13-Dec-19	2524	110.20				
14-Dec-19	3435	149.99				
15-Dec-19	3537	154.44				
16-Dec-19	2776	121.22				
17-Dec-19	2950	128.81				
18-Dec-19	3170	138.44				
19-Dec-19	2617	114.28				
20-Dec-19	2748	120.00				
21-Dec-19	2521	110.09				
22-Dec-19	2697	117.78				
23-Dec-19	2854	124.64				
24-Dec-19	2824	123.33				
25-Dec-19	2670	116.58				
26-Dec-19	2497	109.05				
27-Dec-19	2992	130.66				
28-Dec-19	2970	129.70				
29-Dec-19	3124	136.42				
30-Dec-19	2968	129.60				
31-Dec-19	3396	148.31				

PHASE 8B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	9860	1023.88				
02-Jan-19	8520	884.74				
03-Jan-19	9630	1000.00				
04-Jan-19	9770	1014.54				
05-Jan-19	9960	1034.27				
06-Jan-19	9270	962.62				
07-Jan-19	8400	872.27				
08-Jan-19	8670	900.31				
09-Jan-19	9460	982.35				
10-Jan-19	8830	916.93				
11-Jan-19	13980	1451.71				
12-Jan-19	0	0.00				
13-Jan-19	1290	133.96				
14-Jan-19	6890	715.47				
15-Jan-19	5310	551.40				
16-Jan-19	6180	641.74				
17-Jan-19	10860	1127.73				
18-Jan-19	13850	1438.21				
19-Jan-19	9140	949.12				
20-Jan-19	10960	1138.11				
21-Jan-19	10100	1048.81				
22-Jan-19	8770	910.70				
23-Jan-19	9440	980.27				
24-Jan-19	7810	811.01				
25-Jan-19	10810	1122.53				
26-Jan-19	10870	1128.76				
27-Jan-19	9550	991.69				
28-Jan-19	9470	983.39				
29-Jan-19	9400	976.12				
30-Jan-19	10050	1043.61				
31-Jan-19	11867	1232.29				
01-Feb-19	10530	1093.46				
02-Feb-19	9810	1018.69				
03-Feb-19	9070	941.85				
04-Feb-19	10880	1129.80				
05-Feb-19	0	0.00				
06-Feb-19	12900	1339.56				
07-Feb-19	11090	1151.61				
08-Feb-19	16210	1683.28				
09-Feb-19	8760	909.66				
10-Feb-19	8880	922.12				
11-Feb-19	8680	901.35				
12-Feb-19	0	0.00				
13-Feb-19	12710	1319.83				
14-Feb-19	10090	1047.77				
15-Feb-19	9240	959.50				
16-Feb-19	8950	929.39				
17-Feb-19	8430	875.39				
18-Feb-19	8410	873.31				
19-Feb-19	7870	817.24				
20-Feb-19	8350	867.08				
21-Feb-19	9000	934.58				
22-Feb-19	8010	831.78				
23-Feb-19	8130	844.24				
24-Feb-19	9680	1005.19				
25-Feb-19	9100	944.96				
26-Feb-19	8200	851.51				
27-Feb-19	8120	843.20				
28-Feb-19	8100	841.12				
01-Mar-19	6930	719.63				
02-Mar-19	8260	857.74				
03-Mar-19	0	0.00				
04-Mar-19	6920	718.59				
05-Mar-19	8010	831.78				
06-Mar-19	10710	1112.15				
07-Mar-19	7140	741.43				
08-Mar-19	6400	664.59				
09-Mar-19	9500	986.50				
10-Mar-19	7160	743.51				
11-Mar-19	8860	920.04				
12-Mar-19	8200	851.51				
13-Mar-19	7870	817.24				
14-Mar-19	8050	835.93				
15-Mar-19	8900	924.20				
16-Mar-19	9040	938.73				
17-Mar-19	8290	860.85				
18-Mar-19	8080	839.04				
19-Mar-19	7760	805.82				
20-Mar-19	8060	836.97				
21-Mar-19	0	0.00				
22-Mar-19	1639	170.20				
23-Mar-19	0	0.00				
24-Mar-19	0	0.00				
25-Mar-19	11061	1148.60				
26-Mar-19	13330	1384.22				
27-Mar-19	0	0.00				
28-Mar-19	25347	2632.09				
29-Mar-19	0	0.00				
30-Mar-19	0	0.00				
31-Mar-19	0	0.00				
01-Apr-19	33545	3483.39				
02-Apr-19	20318	2109.87				
03-Apr-19	25347	2632.09				
04-Apr-19	21831	2266.98				
05-Apr-19	34231	3554.62				
06-Apr-19	26283	2729.28				
07-Apr-19	0	0.00				
08-Apr-19	0	0.00				
09-Apr-19	40015	4155.24				
10-Apr-19	29175	3029.60				
11-Apr-19	26801	2783.07				
12-Apr-19	22357	2321.60				
13-Apr-19	6996	726.48				
14-Apr-19	0	0.00				
15-Apr-19	0	0.00				
16-Apr-19	28301	2938.84				
17-Apr-19	24492	2543.30				
18-Apr-19	19887	2065.11				
19-Apr-19	25888	2688.27				
20-Apr-19	32538	3378.82				
21-Apr-19	25338	2631.15				

PHASE 8B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	41230	4281.41				
23-Apr-19	0	0.00				
24-Apr-19	82461	8562.93				
25-Apr-19	8024	833.23				
26-Apr-19	20310	2109.03				
27-Apr-19	17140	1779.85				
28-Apr-19	13940	1447.56				
29-Apr-19	13310	1382.14				
30-Apr-19	12660	1314.64				
01-May-19	12800	1329.18				
02-May-19	13150	1365.52				
03-May-19	12780	1327.10				
04-May-19	13290	1380.06				
05-May-19	12800	1329.18				
06-May-19	4256	441.95				
07-May-19	0	0.00				
08-May-19	21684	2251.71				
09-May-19	16146	1676.64				
10-May-19	14430	1498.44				
11-May-19	14060	1460.02				
12-May-19	13416	1393.15				
13-May-19	12400	1287.64				
14-May-19	12240	1271.03				
15-May-19	11264	1169.68				
16-May-19	10880	1129.80				
17-May-19	12144	1261.06				
18-May-19	10880	1129.80				
19-May-19	11340	1177.57				
20-May-19	11115	1154.21				
21-May-19	11900	1235.72				
22-May-19	10336	1073.31				
23-May-19	10980	1140.19				
24-May-19	11990	1245.07				
25-May-19	10390	1078.92				
26-May-19	11780	1223.26				
27-May-19	10730	1114.23				
28-May-19	10490	1089.30				
29-May-19	11110	1153.69				
30-May-19	10790	1120.46				
31-May-19	10780	1119.42				
01-Jun-19	10260	1065.42				
02-Jun-19	10960	1138.11				
03-Jun-19	10490	1089.30				
04-Jun-19	10240	1063.34				
05-Jun-19	10290	1068.54				
06-Jun-19	10930	1134.99				
07-Jun-19	10200	1059.19				
08-Jun-19	9660	1003.12				
09-Jun-19	9650	1002.08				
10-Jun-19	9790	1016.61				
11-Jun-19	10090	1047.77				
12-Jun-19	10950	1137.07				
13-Jun-19	10400	1079.96				
14-Jun-19	10490	1089.30				
15-Jun-19	10100	1048.81				
16-Jun-19	9740	1011.42				
17-Jun-19	9840	1021.81				
18-Jun-19	9850	1022.85				
19-Jun-19	10250	1064.38				
20-Jun-19	10790	1120.46				
21-Jun-19	10780	1119.42				
22-Jun-19	9750	1012.46				
23-Jun-19	3930	408.10				
24-Jun-19	15280	1586.71				
25-Jun-19	10400	1079.96				
26-Jun-19	9970	1035.31				
27-Jun-19	9830	1020.77				
28-Jun-19	10230	1062.31				
29-Jun-19	10600	1100.73				
30-Jun-19	10640	1104.88				
01-Jul-19	10240	1063.34				
02-Jul-19	9510	987.54				
03-Jul-19	10680	1109.03				
04-Jul-19	9910	1029.08				
05-Jul-19	9900	1028.04				
06-Jul-19	10870	1128.76				
07-Jul-19	9700	1007.27				
08-Jul-19	10250	1064.38				
09-Jul-19	9870	1024.92				
10-Jul-19	9600	996.88				
11-Jul-19	9830	1020.77				
12-Jul-19	10810	1122.53				
13-Jul-19	10340	1073.73				
14-Jul-19	10270	1066.46				
15-Jul-19	10260	1065.42				
16-Jul-19	10320	1071.65				
17-Jul-19	10660	1106.96				
18-Jul-19	9710	1008.31				
19-Jul-19	10230	1062.31				
20-Jul-19	10150	1054.00				
21-Jul-19	10400	1079.96				
22-Jul-19	9330	968.85				
23-Jul-19	9150	950.16				
24-Jul-19	9670	1004.15				
25-Jul-19	8630	896.16				
26-Jul-19	8790	912.77				
27-Jul-19	8670	900.31				
28-Jul-19	9200	955.35				
29-Jul-19	9290	964.69				
30-Jul-19	9110	946.00				
31-Jul-19	9220	957.42				
01-Aug-19	8980	932.50				
02-Aug-19	8890	923.16				
03-Aug-19	9090	943.93				
04-Aug-19	8950	929.39				
05-Aug-19	8460	878.50				
06-Aug-19	8950	929.39				
07-Aug-19	8490	881.62				
08-Aug-19	9810	1018.69				
09-Aug-19	9680	1005.19				
10-Aug-19	0	0.00				

PHASE 8B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00				
12-Aug-19	16630	1726.90				
13-Aug-19	11940	1239.88				
14-Aug-19	8630	896.16				
15-Aug-19	8930	927.31				
16-Aug-19	8550	887.85				
17-Aug-19	8510	883.70				
18-Aug-19	9130	948.08				
19-Aug-19	9130	948.08				
20-Aug-19	8230	854.62				
21-Aug-19	9860	1023.88				
22-Aug-19	9800	1017.65				
23-Aug-19	9140	949.12				
24-Aug-19	8430	875.39				
25-Aug-19	8650	898.23				
26-Aug-19	8970	931.46				
27-Aug-19	8490	881.62				
28-Aug-19	9110	946.00				
29-Aug-19	10710	1112.15				
30-Aug-19	9190	954.31				
31-Aug-19	8950	929.39				
01-Sep-19	8510	883.70				
02-Sep-19	9980	1036.34				
03-Sep-19	8250	856.70				
04-Sep-19	10300	1069.57				
05-Sep-19	9420	978.19				
06-Sep-19	4413	458.22				
07-Sep-19	0	0.00				
08-Sep-19	0	0.00				
09-Sep-19	1490	154.67				
10-Sep-19	22023	2286.93				
11-Sep-19	16340	1696.78				
12-Sep-19	10057	1044.38				
13-Sep-19	9346	970.49				
14-Sep-19	9875	1025.48				
15-Sep-19	9903	1028.35				
16-Sep-19	9310	966.76				
17-Sep-19	9301	965.84				
18-Sep-19	9251	960.67				
19-Sep-19	8778	911.51				
20-Sep-19	9249	960.41				
21-Sep-19	8700	903.41				
22-Sep-19	9203	955.69				
23-Sep-19	9523	988.84				
24-Sep-19	10664	1107.41				
25-Sep-19	9371	973.10				
26-Sep-19	10070	1045.70				
27-Sep-19	9550	991.65				
28-Sep-19	9267	962.27				
29-Sep-19	8620	895.13				
30-Sep-19	8758	909.43				
01-Oct-19	10070	1045.67				
02-Oct-19	9871	1025.02				
03-Oct-19	9388	974.91				
04-Oct-19	9790	1016.58				
05-Oct-19	8722	905.68				
06-Oct-19	9308	966.58				
07-Oct-19	9322	968.06				
08-Oct-19	9282	963.87				
09-Oct-19	8779	911.67				
10-Oct-19	9219	957.33				
11-Oct-19	8814	915.22				
12-Oct-19	9367	972.73				
13-Oct-19	9298	965.50				
14-Oct-19	8777	911.39				
15-Oct-19	9465	982.86				
16-Oct-19	9173	952.57				
17-Oct-19	10756	1116.92				
18-Oct-19	9718	1009.15				
19-Oct-19	8927	926.99				
20-Oct-19	9121	947.13				
21-Oct-19	8679	901.29				
22-Oct-19	9171	952.29				
23-Oct-19	9775	1015.08				
24-Oct-19	9235	958.96				
25-Oct-19	9334	969.23				
26-Oct-19	9738	1011.22				
27-Oct-19	9928	1030.90				
28-Oct-19	9799	1017.60				
29-Oct-19	9726	1010.00				
30-Oct-19	9353	971.24				
31-Oct-19	12063	1252.64				
01-Nov-19	3068	318.61				
02-Nov-19	15573	1617.10				
03-Nov-19	12102	1256.66				
04-Nov-19	9377	973.77				
05-Nov-19	10001	1038.49				
06-Nov-19	9787	1016.26				
07-Nov-19	9809	1018.55				
08-Nov-19	10392	1079.14				
09-Nov-19	9554	992.14				
10-Nov-19	9712	1008.56				
11-Nov-19	9271	962.71				
12-Nov-19	10399	1079.87				
13-Nov-19	9254	960.95				
14-Nov-19	9241	959.57				
15-Nov-19	9334	969.24				
16-Nov-19	9184	953.71				
17-Nov-19	8619	895.00				
18-Nov-19	9849	1022.74				
19-Nov-19	10314	1071.02				
20-Nov-19	9214	956.75				
21-Nov-19	9261	961.66				
22-Nov-19	10318	1071.41				
23-Nov-19	9760	1013.52				
24-Nov-19	10420	1082.03				
25-Nov-19	10056	1044.23				
26-Nov-19	9802	1017.83				
27-Nov-19	10158	1054.85				
28-Nov-19	9466	982.99				
29-Nov-19	9799	1017.57				

PHASE 8B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	9234	958.89				
01-Dec-19	9270	962.67				
02-Dec-19	9248	960.33				
03-Dec-19	10117	1050.54				
04-Dec-19	9221	957.53				
05-Dec-19	9045	939.20				
06-Dec-19	8242	855.87				
07-Dec-19	8525	885.23				
08-Dec-19	8118	842.98				
09-Dec-19	9207	956.09				
10-Dec-19	9866	1024.52				
11-Dec-19	8663	899.59				
12-Dec-19	8634	896.60				
13-Dec-19	8631	896.30				
14-Dec-19	11698	1214.78				
15-Dec-19	10914	1133.33				
16-Dec-19	9619	998.87				
17-Dec-19	10775	1118.92				
18-Dec-19	11352	1178.80				
19-Dec-19	9780	1015.58				
20-Dec-19	8290	860.85				
21-Dec-19	10411	1081.10				
22-Dec-19	11366	1180.25				
23-Dec-19	10890	1130.85				
24-Dec-19	10878	1129.56				
25-Dec-19	10239	1063.24				
26-Dec-19	10202	1059.43				
27-Dec-19	10443	1084.42				
28-Dec-19	10371	1076.98				
29-Dec-19	9802	1017.81				
30-Dec-19	10220	1061.23				
31-Dec-19	10738	1115.07				

PHASE 8C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	46180	8246.43	0	0.00		
02-Jan-19	38150	6812.50	0	0.00		
03-Jan-19	40430	7219.64	0	0.00		
04-Jan-19	40480	7228.57	0	0.00		
05-Jan-19	40250	7187.50	0	0.00		
06-Jan-19	38900	6946.43	0	0.00		
07-Jan-19	28970	5173.21	0	0.00		
08-Jan-19	32870	5869.64	0	0.00		
09-Jan-19	3480	621.43	0	0.00		
10-Jan-19	7800	1392.86	0	0.00		
11-Jan-19	40500	7232.14	0	0.00		
12-Jan-19	68900	12303.57	0	0.00		
13-Jan-19	5878	1049.64	0	0.00		
14-Jan-19	48135	8595.54	0	0.00		
15-Jan-19	14440	2578.57	0	0.00		
16-Jan-19	13300	2375.00	0	0.00		
17-Jan-19	40888	7301.43	0	0.00		
18-Jan-19	67900	12125.00	0	0.00		
19-Jan-19	49030	8755.36	0	0.00		
20-Jan-19	43340	7739.29	0	0.00		
21-Jan-19	39630	7076.79	0	0.00		
22-Jan-19	31930	5701.79	0	0.00		
23-Jan-19	32540	5810.71	0	0.00		
24-Jan-19	27520	4914.29	0	0.00		
25-Jan-19	54930	9808.93	0	0.00		
26-Jan-19	100440	17935.71	0	0.00		
27-Jan-19	62340	11132.14	0	0.00		
28-Jan-19	60230	10755.36	0	0.00		
29-Jan-19	50110	8948.21	0	0.00		
30-Jan-19	48170	8601.79	0	0.00		
31-Jan-19	44899	8017.68	0	0.00	0.00	
01-Feb-19	40080	7157.14	0	0.00		
02-Feb-19	45700	8160.71	0	0.00		
03-Feb-19	39590	7069.64	0	0.00		
04-Feb-19	42855	7652.68	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	44866	8011.79	0	0.00		
07-Feb-19	39650	7080.36	0	0.00		
08-Feb-19	89550	15991.07	0	0.00		
09-Feb-19	60470	10798.21	0	0.00		
10-Feb-19	47570	8494.64	0	0.00		
11-Feb-19	41530	7416.07	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	46810	8358.93	0	0.00		
14-Feb-19	48180	8603.57	0	0.00		
15-Feb-19	40840	7292.86	0	0.00		
16-Feb-19	38470	6869.64	0	0.00		
17-Feb-19	34720	6200.00	0	0.00		
18-Feb-19	34610	6180.36	0	0.00		
19-Feb-19	30670	5476.79	0	0.00		
20-Feb-19	31270	5583.93	0	0.00		
21-Feb-19	32780	5853.57	0	0.00		
22-Feb-19	39050	6973.21	0	0.00		
23-Feb-19	47260	8439.29	0	0.00		
24-Feb-19	31510	5626.79	0	0.00		
25-Feb-19	21260	3796.43	0	0.00		
26-Feb-19	39910	7126.79	0	0.00		
27-Feb-19	35500	6339.29	0	0.00		
28-Feb-19	31580	5639.29	0	0.00	0.00	
01-Mar-19	28230	5041.07	0	0.00		
02-Mar-19	33420	5967.86	0	0.00		
03-Mar-19	32320	5771.43	0	0.00		
04-Mar-19	25390	4533.93	0	0.00		
05-Mar-19	29470	5262.50	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	37750	6741.07	0	0.00		
08-Mar-19	25710	4591.07	0	0.00		
09-Mar-19	40090	7158.93	0	0.00		
10-Mar-19	33850	6044.64	0	0.00		
11-Mar-19	30940	5525.00	0	0.00		
12-Mar-19	40990	7319.64	0	0.00		
13-Mar-19	40490	7230.36	0	0.00		
14-Mar-19	41190	7355.36	0	0.00		
15-Mar-19	53590	9569.64	0	0.00		
16-Mar-19	64800	11571.43	0	0.00		
17-Mar-19	72460	12939.29	0	0.00		
18-Mar-19	64670	11548.21	0	0.00		
19-Mar-19	52850	9437.50	0	0.00		
20-Mar-19	45890	8194.64	0	0.00		
21-Mar-19	0	0.00	0	0.00		
22-Mar-19	5479	978.39	0	0.00		
23-Mar-19	7218	1288.93	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	34510	6162.50	0	0.00		
26-Mar-19	51942	9275.36	0	0.00		
27-Mar-19	115369	20601.61	0	0.00		
28-Mar-19	119488	21337.14	0	0.00		
29-Mar-19	119474	21334.64	0	0.00		
30-Mar-19	119488	21337.14	0	0.00		
31-Mar-19	0	0.00	0	0.00	0.00	
01-Apr-19	19831	3541.25	0	0.00		
02-Apr-19	67449	12044.46	0	0.00		
03-Apr-19	73158	13063.93	0	0.00		
04-Apr-19	67449	12044.46	0	0.00		
05-Apr-19	48268	8619.29	0	0.00		
06-Apr-19	55892	9980.71	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	25552	4562.86	0	0.00		
09-Apr-19	73809	13180.18	0	0.00		
10-Apr-19	58672	10477.14	0	0.00		
11-Apr-19	72596	12963.57	0	0.00		
12-Apr-19	68791	12284.11	0	0.00		
13-Apr-19	13300	2375.00	0	0.00		
14-Apr-19	0	0.00	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	71782	12818.21	0	0.00		
17-Apr-19	142176	25388.57	0	0.00		
18-Apr-19	43003	7679.11	0	0.00		
19-Apr-19	50304	8982.86	0	0.00		
20-Apr-19	54151	9669.82	0	0.00		
21-Apr-19	14400	2571.43	0	0.00		

PHASE 8C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	144638	25828.21	0	0.00		
23-Apr-19	141870	25333.93	0	0.00		
24-Apr-19	136882	24443.21	0	0.00		
25-Apr-19	220289	39337.32	0	0.00		
26-Apr-19	128420	22932.14	0	0.00		
27-Apr-19	126730	22630.36	0	0.00		
28-Apr-19	127660	22796.43	0	0.00		
29-Apr-19	121920	21771.43	0	0.00		
30-Apr-19	116460	20796.43	0	0.00	0.00	
01-May-19	98820	17646.43	0	0.00		
02-May-19	96750	17276.79	0	0.00		
03-May-19	77480	13835.71	0	0.00		
04-May-19	75400	13464.29	0	0.00		
05-May-19	68010	12144.64	0	0.00		
06-May-19	73870	13191.07	0	0.00		
07-May-19	76030	13576.79	0	0.00		
08-May-19	78930	14094.64	0	0.00		
09-May-19	69230	12362.50	0	0.00		
10-May-19	74530	13308.93	0	0.00		
11-May-19	81840	14614.29	0	0.00		
12-May-19	81600	14571.43	0	0.00		
13-May-19	80020	14289.29	0	0.00		
14-May-19	81090	14480.36	0	0.00		
15-May-19	74970	13387.50	0	0.00		
16-May-19	78810	14073.21	0	0.00		
17-May-19	76950	13741.07	0	0.00		
18-May-19	75190	13426.79	0	0.00		
19-May-19	74960	13385.71	0	0.00		
20-May-19	75870	13548.21	0	0.00		
21-May-19	77590	13855.36	0	0.00		
22-May-19	76230	13612.50	0	0.00		
23-May-19	65490	11694.64	0	0.00		
24-May-19	72660	12975.00	0	0.00		
25-May-19	67650	12080.36	0	0.00		
26-May-19	66050	11794.64	0	0.00		
27-May-19	68820	12289.29	0	0.00		
28-May-19	60360	10778.57	0	0.00		
29-May-19	67180	11996.43	0	0.00		
30-May-19	62350	11133.93	0	0.00		
31-May-19	62110	11091.07	0	0.00	0.00	
01-Jun-19	60090	10730.36	0	0.00		
02-Jun-19	57500	10267.86	0	0.00		
03-Jun-19	59270	10583.93	0	0.00		
04-Jun-19	55730	9951.79	0	0.00		
05-Jun-19	52540	9382.14	0	0.00		
06-Jun-19	56840	10150.00	0	0.00		
07-Jun-19	54260	9689.29	0	0.00		
08-Jun-19	53750	9598.21	0	0.00		
09-Jun-19	48600	8678.57	0	0.00		
10-Jun-19	50710	9055.36	0	0.00		
11-Jun-19	54950	9812.50	0	0.00		
12-Jun-19	63660	11367.86	0	0.00		
13-Jun-19	60850	10866.07	0	0.00		
14-Jun-19	62670	11191.07	0	0.00		
15-Jun-19	61430	10969.64	0	0.00		
16-Jun-19	57630	10291.07	0	0.00		
17-Jun-19	57870	10333.93	0	0.00		
18-Jun-19	53980	9639.29	0	0.00		
19-Jun-19	54040	9650.00	0	0.00		
20-Jun-19	58090	10373.21	0	0.00		
21-Jun-19	82670	14762.50	0	0.00		
22-Jun-19	105450	18830.36	0	0.00		
23-Jun-19	38720	6914.29	0	0.00		
24-Jun-19	76440	13650.00	0	0.00		
25-Jun-19	88660	15832.14	0	0.00		
26-Jun-19	87520	15628.57	0	0.00		
27-Jun-19	89130	15916.07	0	0.00		
28-Jun-19	93510	16698.21	0	0.00		
29-Jun-19	87760	15671.43	0	0.00		
30-Jun-19	65600	11714.29	0	0.00	0.00	
01-Jul-19	94630	16898.21	0	0.00		
02-Jul-19	81620	14575.00	0	0.00		
03-Jul-19	89680	16014.29	0	0.00		
04-Jul-19	77400	13821.43	0	0.00		
05-Jul-19	68720	12271.43	0	0.00		
06-Jul-19	67510	12055.36	0	0.00		
07-Jul-19	68450	12223.21	0	0.00		
08-Jul-19	66140	11810.71	0	0.00		
09-Jul-19	58060	10367.86	0	0.00		
10-Jul-19	57890	10337.50	0	0.00		
11-Jul-19	56610	10108.93	0	0.00		
12-Jul-19	56980	10175.00	0	0.00		
13-Jul-19	57250	10223.21	0	0.00		
14-Jul-19	58380	10425.00	0	0.00		
15-Jul-19	58200	10392.86	0	0.00		
16-Jul-19	57160	10207.14	0	0.00		
17-Jul-19	57700	10303.57	0	0.00		
18-Jul-19	56130	10023.21	0	0.00		
19-Jul-19	56560	10100.00	0	0.00		
20-Jul-19	55450	9901.79	0	0.00		
21-Jul-19	54730	9773.21	0	0.00		
22-Jul-19	48600	8678.57	0	0.00		
23-Jul-19	41580	7425.00	0	0.00		
24-Jul-19	28040	5007.14	0	0.00		
25-Jul-19	30600	5464.29	0	0.00		
26-Jul-19	29410	5251.79	0	0.00		
27-Jul-19	30140	5382.14	0	0.00		
28-Jul-19	31120	5557.14	0	0.00		
29-Jul-19	31070	5548.21	0	0.00		
30-Jul-19	32480	5800.00	0	0.00		
31-Jul-19	38700	6910.71	0	0.00	0.00	
01-Aug-19	33810	6037.50	0	0.00		
02-Aug-19	31730	5666.07	0	0.00		
03-Aug-19	31740	5667.86	0	0.00		
04-Aug-19	31960	5707.14	0	0.00		
05-Aug-19	30820	5503.57	0	0.00		
06-Aug-19	30880	5514.29	0	0.00		
07-Aug-19	30920	5521.43	0	0.00		
08-Aug-19	28180	5032.14	0	0.00		
09-Aug-19	29560	5278.57	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 8C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	53850	9616.07	0	0.00		
13-Aug-19	43920	7842.86	0	0.00		
14-Aug-19	39900	7125.00	0	0.00		
15-Aug-19	39710	7091.07	0	0.00		
16-Aug-19	33880	6050.00	0	0.00		
17-Aug-19	32630	5826.79	0	0.00		
18-Aug-19	33180	5925.00	0	0.00		
19-Aug-19	36490	6516.07	0	0.00		
20-Aug-19	34760	6207.14	0	0.00		
21-Aug-19	34780	6210.71	0	0.00		
22-Aug-19	86350	15419.64	0	0.00		
23-Aug-19	111000	19821.43	0	0.00		
24-Aug-19	91760	16385.71	0	0.00		
25-Aug-19	70970	12673.21	0	0.00		
26-Aug-19	58160	10385.71	0	0.00		
27-Aug-19	66740	11917.86	0	0.00		
28-Aug-19	46290	8266.07	0	0.00		
29-Aug-19	48870	8726.79	0	0.00		
30-Aug-19	58650	10473.21	0	0.00		
31-Aug-19	69410	12394.64	0	0.00	0.00	
01-Sep-19	57850	10330.36	0	0.00		
02-Sep-19	51540	9203.57	0	0.00		
03-Sep-19	41190	7355.36	0	0.00		
04-Sep-19	51670	9226.79	0	0.00		
05-Sep-19	49470	8833.93	0	0.00		
06-Sep-19	16471	2941.18	0	0.00		
07-Sep-19	50649	9044.46	0	0.00		
08-Sep-19	50595	9034.82	0	0.00		
09-Sep-19	15326	2736.80	0	0.00		
10-Sep-19	41224	7361.34	0	0.00		
11-Sep-19	50926	9093.89	0	0.00		
12-Sep-19	41671	7441.23	0	0.00		
13-Sep-19	36888	6587.21	0	0.00		
14-Sep-19	36807	6572.75	0	0.00		
15-Sep-19	36733	6559.52	0	0.00		
16-Sep-19	36259	6474.84	0	0.00		
17-Sep-19	34065	6083.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	11583	2068.39	0	0.00		
20-Sep-19	60200	10749.92	0	0.00		
21-Sep-19	42181	7532.33	0	0.00		
22-Sep-19	37683	6729.14	0	0.00		
23-Sep-19	37021	6610.96	0	0.00		
24-Sep-19	71408	12751.37	0	0.00		
25-Sep-19	97586	17426.02	0	0.00		
26-Sep-19	88884	15872.15	0	0.00		
27-Sep-19	80262	14332.54	0	0.00		
28-Sep-19	68286	12194.00	0	0.00		
29-Sep-19	59460	10617.85	0	0.00		
30-Sep-19	51634	9220.41	0	0.00	0.00	
01-Oct-19	50045	8936.58	0	0.00		
02-Oct-19	50153	8955.81	0	0.00		
03-Oct-19	45458	8117.43	0	0.00		
04-Oct-19	45584	8140.04	0	0.00		
05-Oct-19	42497	7588.71	0	0.00		
06-Oct-19	41718	7449.57	0	0.00		
07-Oct-19	42055	7509.81	0	0.00		
08-Oct-19	43187	7711.96	0	0.00		
09-Oct-19	45571	8137.70	0	0.00		
10-Oct-19	47071	8405.47	0	0.00		
11-Oct-19	46626	8326.04	0	0.00		
12-Oct-19	47465	8475.92	0	0.00		
13-Oct-19	44346	7918.99	0	0.00		
14-Oct-19	45582	8139.59	0	0.00		
15-Oct-19	41586	7426.11	0	0.00		
16-Oct-19	39762	7100.27	0	0.00		
17-Oct-19	42042	7507.49	0	0.00		
18-Oct-19	41893	7480.94	0	0.00		
19-Oct-19	39479	7049.84	0	0.00		
20-Oct-19	38436	6863.50	0	0.00		
21-Oct-19	37585	6711.69	0	0.00		
22-Oct-19	36648	6544.30	0	0.00		
23-Oct-19	43510	7769.56	0	0.00		
24-Oct-19	59940	10703.60	0	0.00		
25-Oct-19	66356	11849.28	0	0.00		
26-Oct-19	64011	11430.48	0	0.00		
27-Oct-19	57270	10226.71	0	0.00		
28-Oct-19	60688	10837.11	0	0.00		
29-Oct-19	59917	10699.52	0	0.00		
30-Oct-19	58870	10512.50	0	0.00		
31-Oct-19	58025	10361.69	0	0.00	0.00	
01-Nov-19	11848	2115.64	0	0.00		
02-Nov-19	54321	9700.23	0	0.00		
03-Nov-19	87099	15553.33	0	0.00		
04-Nov-19	66358	11849.64	0	0.00		
05-Nov-19	56951	10169.74	0	0.00		
06-Nov-19	51434	9184.56	0	0.00		
07-Nov-19	47994	8570.43	0	0.00		
08-Nov-19	46550	8312.55	0	0.00		
09-Nov-19	42797	7642.35	0	0.00		
10-Nov-19	42250	7544.64	0	0.00		
11-Nov-19	40146	7168.93	0	0.00		
12-Nov-19	40161	7171.63	0	0.00		
13-Nov-19	38477	6870.93	0	0.00		
14-Nov-19	35774	6388.15	0	0.00		
15-Nov-19	33853	6045.16	0	0.00		
16-Nov-19	36425	6504.53	0	0.00		
17-Nov-19	33563	5993.46	0	0.00		
18-Nov-19	35048	6258.53	0	0.00		
19-Nov-19	36255	6474.19	0	0.00		
20-Nov-19	34781	6210.85	0	0.00		
21-Nov-19	34134	6095.41	0	0.00		
22-Nov-19	35637	6363.82	0	0.00		
23-Nov-19	35598	6356.84	0	0.00		
24-Nov-19	36223	6468.31	0	0.00		
25-Nov-19	39947	7133.40	0	0.00		
26-Nov-19	43560	7778.56	0	0.00		
27-Nov-19	45570	8137.46	0	0.00		
28-Nov-19	49875	8906.34	0	0.00		
29-Nov-19	49948	8919.24	0	0.00		

PHASE 8C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	50326	8986.80	0	0.00	0.00	
01-Dec-19	49535	8845.56	0	0.00		
02-Dec-19	48959	8742.72	0	0.00		
03-Dec-19	48978	8746.11	0	0.00		
04-Dec-19	48612	8680.77	0	0.00		
05-Dec-19	47096	8409.99	0	0.00		
06-Dec-19	43907	7840.48	0	0.00		
07-Dec-19	40557	7242.32	0	0.00		
08-Dec-19	38358	6849.66	0	0.00		
09-Dec-19	37561	6707.30	0	0.00		
10-Dec-19	39608	7072.78	0	0.00		
11-Dec-19	37500	6696.36	0	0.00		
12-Dec-19	40652	7259.24	0	0.00		
13-Dec-19	38992	6962.89	0	0.00		
14-Dec-19	42625	7611.62	0	0.00		
15-Dec-19	59132	10559.29	0	0.00		
16-Dec-19	65071	11619.88	0	0.00		
17-Dec-19	64294	11481.10	0	0.00		
18-Dec-19	61124	10914.98	0	0.00		
19-Dec-19	55434	9898.93	0	0.00		
20-Dec-19	52748	9419.29	0	0.00		
21-Dec-19	51293	9159.53	0	0.00		
22-Dec-19	49865	8904.40	0	0.00		
23-Dec-19	49533	8845.18	0	0.00		
24-Dec-19	48318	8628.14	0	0.00		
25-Dec-19	46121	8235.92	0	0.00		
26-Dec-19	44003	7857.69	0	0.00		
27-Dec-19	42951	7669.87	0	0.00		
28-Dec-19	42967	7672.73	0	0.00		
29-Dec-19	41109	7340.81	0	0.00		
30-Dec-19	40553	7241.62	0	0.00		
31-Dec-19	41073	7334.38	0	0.00	0.00	

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	PRIMARY		SECONDARY				
DATE	INCREMENTAL FLOW (gals)	DAILY FLOW RATE (gad)	INCREMENTAL FLOW (gals)	TOTAL DILUTION FACTORED FLOW (gals/day)	DAILY FLOW RATE (gad)	MONTHLY AVG. DAILY FLOW RATE (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	196	42.52	0	0.00	0.00		
02-Jan-19	196	42.52	0	0.00	0.00		
03-Jan-19	196	42.52	0	0.00	0.00		
04-Jan-19	196	42.52	0	0.00	0.00		
05-Jan-19	196	42.52	0	0.00	0.00		
06-Jan-19	196	42.52	0	0.00	0.00		
07-Jan-19	196	42.52	0	0.00	0.00		
08-Jan-19	196	42.52	0	0.00	0.00		
09-Jan-19	196	42.52	0	0.00	0.00		
10-Jan-19	196	42.52	0	0.00	0.00		
11-Jan-19	196	42.52	0	0.00	0.00		
12-Jan-19	196	42.52	0	0.00	0.00		
13-Jan-19	196	42.52	0	0.00	0.00		
14-Jan-19	196	42.52	0	0.00	0.00		
15-Jan-19	196	42.52	0	0.00	0.00		
16-Jan-19	196	42.52	0	0.00	0.00		
17-Jan-19	196	42.52	0	0.00	0.00		
18-Jan-19	196	42.52	0	0.00	0.00		
19-Jan-19	196	42.52	0	0.00	0.00		
20-Jan-19	196	42.52	0	0.00	0.00		
21-Jan-19	196	42.52	0	0.00	0.00		
22-Jan-19	196	42.52	0	0.00	0.00		
23-Jan-19	196	42.52	0	0.00	0.00		
24-Jan-19	196	42.52	0	0.00	0.00		
25-Jan-19	196	42.52	0	0.00	0.00		
26-Jan-19	196	42.52	0	0.00	0.00		
27-Jan-19	196	42.52	0	0.00	0.00		
28-Jan-19	196	42.52	0	0.00	0.00		
29-Jan-19	196	42.52	0	0.00	0.00		
30-Jan-19	196	42.52	0	0.00	0.00		
31-Jan-19	196	42.52	0	0.00	0.00	0.00	
01-Feb-19	196	42.52	0	0.00	0.00		
02-Feb-19	196	42.52	0	0.00	0.00		
03-Feb-19	196	42.52	0	0.00	0.00		
04-Feb-19	196	42.52	0	0.00	0.00		
05-Feb-19	196	42.52	0	0.00	0.00		
06-Feb-19	196	42.52	0	0.00	0.00		
07-Feb-19	196	42.52	0	0.00	0.00		
08-Feb-19	196	42.52	0	0.00	0.00		
09-Feb-19	196	42.52	0	0.00	0.00		
10-Feb-19	196	42.52	0	0.00	0.00		
11-Feb-19	196	42.52	0	0.00	0.00		
12-Feb-19	196	42.52	0	0.00	0.00		
13-Feb-19	196	42.52	0	0.00	0.00		
14-Feb-19	196	42.52	0	0.00	0.00		
15-Feb-19	196	42.52	0	0.00	0.00		
16-Feb-19	196	42.52	0	0.00	0.00		
17-Feb-19	196	42.52	0	0.00	0.00		
18-Feb-19	196	42.52	0	0.00	0.00		
19-Feb-19	196	42.52	0	0.00	0.00		
20-Feb-19	196	42.52	0	0.00	0.00		
21-Feb-19	196	42.52	0	0.00	0.00		
22-Feb-19	196	42.52	0	0.00	0.00		
23-Feb-19	196	42.52	0	0.00	0.00		
24-Feb-19	196	42.52	0	0.00	0.00		
25-Feb-19	196	42.52	0	0.00	0.00		
26-Feb-19	196	42.52	0	0.00	0.00		
27-Feb-19	196	42.52	0	0.00	0.00		
28-Feb-19	196	42.52	0	0.00	0.00	0.00	
01-Mar-19	196	42.52	0	0.00	0.00		
02-Mar-19	196	42.52	0	0.00	0.00		
03-Mar-19	196	42.52	0	0.00	0.00		
04-Mar-19	196	42.52	0	0.00	0.00		
05-Mar-19	196	42.52	48	7.20	1.56		
06-Mar-19	196	42.52	0	0.00	0.00		
07-Mar-19	196	42.52	0	0.00	0.00		
08-Mar-19	196	42.52	0	0.00	0.00		
09-Mar-19	196	42.52	0	0.00	0.00		
10-Mar-19	196	42.52	0	0.00	0.00		
11-Mar-19	196	42.52	0	0.00	0.00		
12-Mar-19	196	42.52	0	0.00	0.00		
13-Mar-19	196	42.52	0	0.00	0.00		
14-Mar-19	196	42.52	0	0.00	0.00		
15-Mar-19	196	42.52	0	0.00	0.00		
16-Mar-19	196	42.52	0	0.00	0.00		
17-Mar-19	196	42.52	0	0.00	0.00		
18-Mar-19	196	42.52	0	0.00	0.00		
19-Mar-19	196	42.52	0	0.00	0.00		
20-Mar-19	196	42.52	0	0.00	0.00		
21-Mar-19	196	42.52	0	0.00	0.00		
22-Mar-19	196	42.52	0	0.00	0.00		
23-Mar-19	196	42.52	0	0.00	0.00		
24-Mar-19	196	42.52	0	0.00	0.00		
25-Mar-19	196	42.52	0	0.00	0.00		
26-Mar-19	196	42.52	0	0.00	0.00		
27-Mar-19	196	42.52	0	0.00	0.00		
28-Mar-19	196	42.52	0	0.00	0.00		
29-Mar-19	196	42.52	0	0.00	0.00		
30-Mar-19	196	42.52	0	0.00	0.00		
31-Mar-19	196	42.52	0	0.00	0.00	0.05	
01-Apr-19	196	42.52	0	0.00	0.00		
02-Apr-19	196	42.52	0	0.00	0.00		
03-Apr-19	196	42.52	0	0.00	0.00		
04-Apr-19	196	42.52	0	0.00	0.00		
05-Apr-19	196	42.52	0	0.00	0.00		
06-Apr-19	196	42.52	0	0.00	0.00		
07-Apr-19	196	42.52	0	0.00	0.00		
08-Apr-19	196	42.52	0	0.00	0.00		
09-Apr-19	196	42.52	0	0.00	0.00		
10-Apr-19	196	42.52	0	0.00	0.00		
11-Apr-19	196	42.52	0	0.00	0.00		
12-Apr-19	196	42.52	0	0.00	0.00		
13-Apr-19	196	42.52	0	0.00	0.00		
14-Apr-19	196	42.52	0	0.00	0.00		
15-Apr-19	196	42.52	0	0.00	0.00		
16-Apr-19	196	42.52	0	0.00	0.00		
17-Apr-19	196	42.52	0	0.00	0.00		
18-Apr-19	196	42.52	0	0.00	0.00		
19-Apr-19	196	42.52	0	0.00	0.00		
20-Apr-19	196	42.52	0	0.00	0.00		
21-Apr-19	196	42.52	0	0.00	0.00		
22-Apr-19	196	42.52	0	0.00	0.00		

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	PRIMARY		SECONDARY				
DATE	INCREMENTAL FLOW (gals)	DAILY FLOW RATE (gad)	INCREMENTAL FLOW (gals)	TOTAL DILUTION FACTORED FLOW (gals/day)	DAILY FLOW RATE (gad)	MONTHLY AVG. DAILY FLOW RATE (gad)	OBSERVATIONS/COMMENTS
23-Apr-19	196	42.52	0	0.00	0.00		
24-Apr-19	196	42.52	0	0.00	0.00		
25-Apr-19	196	42.52	0	0.00	0.00		
26-Apr-19	196	42.52	0	0.00	0.00		
27-Apr-19	196	42.52	0	0.00	0.00		
28-Apr-19	196	42.52	0	0.00	0.00		
29-Apr-19	196	42.52	0	0.00	0.00		
30-Apr-19	196	42.52	0	0.00	0.00	0.00	
01-May-19	196	42.52	0	0.00	0.00		
02-May-19	196	42.52	0	0.00	0.00		
03-May-19	196	42.52	0	0.00	0.00		
04-May-19	196	42.52	0	0.00	0.00		
05-May-19	196	42.52	0	0.00	0.00		
06-May-19	196	42.52	0	0.00	0.00		
07-May-19	196	42.52	0	0.00	0.00		
08-May-19	196	42.52	0	0.00	0.00		
09-May-19	196	42.52	0	0.00	0.00		
10-May-19	196	42.52	0	0.00	0.00		
11-May-19	196	42.52	0	0.00	0.00		
12-May-19	196	42.52	0	0.00	0.00		
13-May-19	196	42.52	0	0.00	0.00		
14-May-19	196	42.52	0	0.00	0.00		
15-May-19	196	42.52	0	0.00	0.00		
16-May-19	196	42.52	0	0.00	0.00		
17-May-19	196	42.52	0	0.00	0.00		
18-May-19	196	42.52	0	0.00	0.00		
19-May-19	196	42.52	0	0.00	0.00		
20-May-19	196	42.52	0	0.00	0.00		
21-May-19	196	42.52	0	0.00	0.00		
22-May-19	196	42.52	0	0.00	0.00		
23-May-19	196	42.52	0	0.00	0.00		
24-May-19	196	42.52	0	0.00	0.00		
25-May-19	196	42.52	0	0.00	0.00		
26-May-19	196	42.52	0	0.00	0.00		
27-May-19	196	42.52	0	0.00	0.00		
28-May-19	196	42.52	0	0.00	0.00		
29-May-19	196	42.52	0	0.00	0.00		
30-May-19	196	42.52	0	0.00	0.00		
31-May-19	196	42.52	0	0.00	0.00	0.00	
01-Jun-19	196	42.52	0	0.00	0.00		
02-Jun-19	196	42.52	0	0.00	0.00		
03-Jun-19	196	42.52	0	0.00	0.00		
04-Jun-19	196	42.52	0	0.00	0.00		
05-Jun-19	196	42.52	0	0.00	0.00		
06-Jun-19	196	42.52	0	0.00	0.00		
07-Jun-19	196	42.52	0	0.00	0.00		
08-Jun-19	196	42.52	0	0.00	0.00		
09-Jun-19	196	42.52	0	0.00	0.00		
10-Jun-19	196	42.52	0	0.00	0.00		
11-Jun-19	196	42.52	0	0.00	0.00		
12-Jun-19	196	42.52	0	0.00	0.00		
13-Jun-19	196	42.52	0	0.00	0.00		
14-Jun-19	196	42.52	0	0.00	0.00		
15-Jun-19	196	42.52	0	0.00	0.00		
16-Jun-19	196	42.52	0	0.00	0.00		
17-Jun-19	196	42.52	0	0.00	0.00		
18-Jun-19	196	42.52	0	0.00	0.00		
19-Jun-19	196	42.52	0	0.00	0.00		
20-Jun-19	196	42.52	0	0.00	0.00		
21-Jun-19	196	42.52	0	0.00	0.00		
22-Jun-19	196	42.52	0	0.00	0.00		
23-Jun-19	196	42.52	0	0.00	0.00		
24-Jun-19	196	42.52	0	0.00	0.00		
25-Jun-19	196	42.52	48	7.20	1.56		
26-Jun-19	196	42.52	0	0.00	0.00		
27-Jun-19	196	42.52	0	0.00	0.00		
28-Jun-19	196	42.52	0	0.00	0.00		
29-Jun-19	196	42.52	0	0.00	0.00		
30-Jun-19	196	42.52	0	0.00	0.00	0.05	
01-Jul-19	196	42.52	0	0.00	0.00		
02-Jul-19	196	42.52	0	0.00	0.00		
03-Jul-19	196	42.52	0	0.00	0.00		
04-Jul-19	196	42.52	0	0.00	0.00		
05-Jul-19	196	42.52	0	0.00	0.00		
06-Jul-19	196	42.52	0	0.00	0.00		
07-Jul-19	196	42.52	0	0.00	0.00		
08-Jul-19	196	42.52	0	0.00	0.00		
09-Jul-19	196	42.52	0	0.00	0.00		
10-Jul-19	196	42.52	0	0.00	0.00		
11-Jul-19	196	42.52	0	0.00	0.00		
12-Jul-19	196	42.52	0	0.00	0.00		
13-Jul-19	196	42.52	0	0.00	0.00		
14-Jul-19	196	42.52	0	0.00	0.00		
15-Jul-19	196	42.52	0	0.00	0.00		
16-Jul-19	196	42.52	0	0.00	0.00		
17-Jul-19	196	42.52	0	0.00	0.00		
18-Jul-19	196	42.52	0	0.00	0.00		
19-Jul-19	196	42.52	0	0.00	0.00		
20-Jul-19	196	42.52	0	0.00	0.00		
21-Jul-19	196	42.52	0	0.00	0.00		
22-Jul-19	196	42.52	0	0.00	0.00		
23-Jul-19	196	42.52	0	0.00	0.00		
24-Jul-19	196	42.52	0	0.00	0.00		
25-Jul-19	196	42.52	0	0.00	0.00		
26-Jul-19	196	42.52	0	0.00	0.00		
27-Jul-19	196	42.52	0	0.00	0.00		
28-Jul-19	196	42.52	0	0.00	0.00		
29-Jul-19	196	42.52	0	0.00	0.00		
30-Jul-19	196	42.52	0	0.00	0.00		
31-Jul-19	196	42.52	0	0.00	0.00	0.00	
01-Aug-19	196	42.52	0	0.00	0.00		
02-Aug-19	196	42.52	0	0.00	0.00		
03-Aug-19	196	42.52	0	0.00	0.00		
04-Aug-19	196	42.52	0	0.00	0.00		
05-Aug-19	196	42.52	0	0.00	0.00		
06-Aug-19	196	42.52	0	0.00	0.00		
07-Aug-19	196	42.52	0	0.00	0.00		
08-Aug-19	196	42.52	0	0.00	0.00		
09-Aug-19	196	42.52	0	0.00	0.00		
10-Aug-19	196	42.52	0	0.00	0.00		
11-Aug-19	196	42.52	0	0.00	0.00		
12-Aug-19	196	42.52	0	0.00	0.00		

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	PRIMARY		SECONDARY				
DATE	INCREMENTAL FLOW (gals)	DAILY FLOW RATE (gad)	INCREMENTAL FLOW (gals)	TOTAL DILUTION FACTORED FLOW (gals/day)	DAILY FLOW RATE (gad)	MONTHLY AVG. DAILY FLOW RATE (gad)	OBSERVATIONS/COMMENTS
13-Aug-19	196	42.52	0	0.00	0.00		
14-Aug-19	196	42.52	0	0.00	0.00		
15-Aug-19	196	42.52	0	0.00	0.00		
16-Aug-19	196	42.52	0	0.00	0.00		
17-Aug-19	196	42.52	0	0.00	0.00		
18-Aug-19	196	42.52	0	0.00	0.00		
19-Aug-19	196	42.52	0	0.00	0.00		
20-Aug-19	196	42.52	0	0.00	0.00		
21-Aug-19	196	42.52	0	0.00	0.00		
22-Aug-19	196	42.52	0	0.00	0.00		
23-Aug-19	196	42.52	0	0.00	0.00		
24-Aug-19	196	42.52	0	0.00	0.00		
25-Aug-19	196	42.52	0	0.00	0.00		
26-Aug-19	196	42.52	0	0.00	0.00		
27-Aug-19	196	42.52	0	0.00	0.00		
28-Aug-19	196	42.52	0	0.00	0.00		
29-Aug-19	196	42.52	0	0.00	0.00		
30-Aug-19	196	42.52	0	0.00	0.00		
31-Aug-19	196	42.52	0	0.00	0.00	0.00	
01-Sep-19	196	42.52	0	0.00	0.00		
02-Sep-19	196	42.52	0	0.00	0.00		
03-Sep-19	196	42.52	0	0.00	0.00		
04-Sep-19	196	42.52	0	0.00	0.00		
05-Sep-19	196	42.52	0	0.00	0.00		
06-Sep-19	196	42.52	0	0.00	0.00		
07-Sep-19	196	42.52	0	0.00	0.00		
08-Sep-19	196	42.52	0	0.00	0.00		
09-Sep-19	196	42.52	0	0.00	0.00		
10-Sep-19	196	42.52	0	0.00	0.00		
11-Sep-19	196	42.52	0	0.00	0.00		
12-Sep-19	196	42.52	0	0.00	0.00		
13-Sep-19	196	42.52	0	0.00	0.00		
14-Sep-19	196	42.52	0	0.00	0.00		
15-Sep-19	196	42.52	0	0.00	0.00		
16-Sep-19	196	42.52	0	0.00	0.00		
17-Sep-19	196	42.52	0	0.00	0.00		
18-Sep-19	196	42.52	0	0.00	0.00		
19-Sep-19	196	42.52	0	0.00	0.00		
20-Sep-19	196	42.52	0	0.00	0.00		
21-Sep-19	196	42.52	0	0.00	0.00		
22-Sep-19	196	42.52	0	0.00	0.00		
23-Sep-19	196	42.52	0	0.00	0.00		
24-Sep-19	196	42.52	74	11.09	2.41		
25-Sep-19	196	42.52	0	0.00	0.00		
26-Sep-19	196	42.52	0	0.00	0.00		
27-Sep-19	196	42.52	0	0.00	0.00		
28-Sep-19	196	42.52	0	0.00	0.00		
29-Sep-19	196	42.52	0	0.00	0.00		
30-Sep-19	196	42.52	0	0.00	0.00	0.08	
01-Oct-19	196	42.52	0	0.00	0.00		
02-Oct-19	196	42.52	0	0.00	0.00		
03-Oct-19	196	42.52	0	0.00	0.00		
04-Oct-19	196	42.52	0	0.00	0.00		
05-Oct-19	196	42.52	0	0.00	0.00		
06-Oct-19	196	42.52	0	0.00	0.00		
07-Oct-19	196	42.52	0	0.00	0.00		
08-Oct-19	196	42.52	0	0.00	0.00		
09-Oct-19	196	42.52	0	0.00	0.00		
10-Oct-19	196	42.52	0	0.00	0.00		
11-Oct-19	196	42.52	0	0.00	0.00		
12-Oct-19	196	42.52	0	0.00	0.00		
13-Oct-19	196	42.52	0	0.00	0.00		
14-Oct-19	196	42.52	0	0.00	0.00		
15-Oct-19	196	42.52	0	0.00	0.00		
16-Oct-19	196	42.52	0	0.00	0.00		
17-Oct-19	196	42.52	79	11.87	2.57		
18-Oct-19	196	42.52	0	0.00	0.00		
19-Oct-19	196	42.52	0	0.00	0.00		
20-Oct-19	196	42.52	0	0.00	0.00		
21-Oct-19	196	42.52	0	0.00	0.00		
22-Oct-19	196	42.52	27	4.08	0.89		
23-Oct-19	196	42.52	0	0.00	0.00		
24-Oct-19	196	42.52	0	0.00	0.00		
25-Oct-19	196	42.52	0	0.00	0.00		
26-Oct-19	196	42.52	0	0.00	0.00		
27-Oct-19	196	42.52	0	0.00	0.00		
28-Oct-19	196	42.52	0	0.00	0.00		
29-Oct-19	196	42.52	0	0.00	0.00		
30-Oct-19	196	42.52	0	0.00	0.00		
31-Oct-19	196	42.52	0	0.00	0.00	0.11	
01-Nov-19	136	29.50	0	0.00	0.00		
02-Nov-19	136	29.50	0	0.00	0.00		
03-Nov-19	136	29.50	0	0.00	0.00		
04-Nov-19	136	29.50	0	0.00	0.00		
05-Nov-19	136	29.50	0	0.00	0.00		
06-Nov-19	136	29.50	0	0.00	0.00		
07-Nov-19	136	29.50	0	0.00	0.00		
08-Nov-19	136	29.50	0	0.00	0.00		
09-Nov-19	136	29.50	0	0.00	0.00		
10-Nov-19	136	29.50	0	0.00	0.00		
11-Nov-19	136	29.50	0	0.00	0.00		
12-Nov-19	136	29.50	0	0.00	0.00		
13-Nov-19	136	29.50	0	0.00	0.00		
14-Nov-19	136	29.50	0	0.00	0.00		
15-Nov-19	136	29.50	0	0.00	0.00		
16-Nov-19	136	29.50	0	0.00	0.00		
17-Nov-19	136	29.50	0	0.00	0.00		
18-Nov-19	136	29.50	0	0.00	0.00		
19-Nov-19	136	29.50	0	0.00	0.00		
20-Nov-19	136	29.50	0	0.00	0.00		
21-Nov-19	136	29.50	0	0.00	0.00		
22-Nov-19	136	29.50	0	0.00	0.00		
23-Nov-19	136	29.50	0	0.00	0.00		
24-Nov-19	136	29.50	0	0.00	0.00		
25-Nov-19	136	29.50	0	0.00	0.00		
26-Nov-19	136	29.50	0	0.00	0.00		
27-Nov-19	136	29.50	0	0.00	0.00		
28-Nov-19	136	29.50	0	0.00	0.00		
29-Nov-19	136	29.50	0	0.00	0.00		
30-Nov-19	136	29.50	0	0.00	0.00	0.00	
01-Dec-19	136	29.50	0	0.00	0.00		
02-Dec-19	136	29.50	0	0.00	0.00		

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	PRIMARY		SECONDARY				
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*TOTAL DILUTION FACTORED FLOW* (gals/day)	*DAILY FLOW RATE* (gad)	*MONTHLY AVG. DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
03-Dec-19	136	29.50	0	0.00	0.00		
04-Dec-19	136	29.50	0	0.00	0.00		
05-Dec-19	136	29.50	0	0.00	0.00		
06-Dec-19	136	29.50	0	0.00	0.00		
07-Dec-19	136	29.50	0	0.00	0.00		
08-Dec-19	136	29.50	0	0.00	0.00		
09-Dec-19	136	29.50	0	0.00	0.00		
10-Dec-19	136	29.50	0	0.00	0.00		
11-Dec-19	136	29.50	78	11.70	2.54		
12-Dec-19	136	29.50	0	0.00	0.00		
13-Dec-19	136	29.50	0	0.00	0.00		
14-Dec-19	136	29.50	0	0.00	0.00		
15-Dec-19	136	29.50	0	0.00	0.00		
16-Dec-19	136	29.50	0	0.00	0.00		
17-Dec-19	136	29.50	0	0.00	0.00		
18-Dec-19	136	29.50	0	0.00	0.00		
19-Dec-19	136	29.50	0	0.00	0.00		
20-Dec-19	136	29.50	0	0.00	0.00		
21-Dec-19	136	29.50	0	0.00	0.00		
22-Dec-19	136	29.50	0	0.00	0.00		
23-Dec-19	136	29.50	0	0.00	0.00		
24-Dec-19	136	29.50	0	0.00	0.00		
25-Dec-19	136	29.50	0	0.00	0.00		
26-Dec-19	136	29.50	0	0.00	0.00		
27-Dec-19	136	29.50	0	0.00	0.00		
28-Dec-19	136	29.50	0	0.00	0.00		
29-Dec-19	136	29.50	0	0.00	0.00		
30-Dec-19	136	29.50	0	0.00	0.00		
31-Dec-19	136	29.50	0	0.00	0.00	0.08	

PHASE 9A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1250	337.73	0	0.00		
02-Jan-19	1275	344.54	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	1275	344.67	0	0.00		
05-Jan-19	1279	345.62	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	1292	349.30	0	0.00		
08-Jan-19	1270	343.15	0	0.00		
09-Jan-19	0	0.00	0	0.00		
10-Jan-19	1273	344.04	0	0.00		
11-Jan-19	1282	346.39	130	35.14		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	1272	343.84	0	0.00		
14-Jan-19	1264	341.68	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	1271	343.47	0	0.00		
17-Jan-19	1284	347.09	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	1286	347.49	0	0.00		
20-Jan-19	1257	339.86	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	1295	350.00	0	0.00		
23-Jan-19	1276	344.96	0	0.00		
24-Jan-19	1270	343.12	0	0.00		
25-Jan-19	1302	351.87	0	0.00		
26-Jan-19	0	0.00	0	0.00		
27-Jan-19	1286	347.55	0	0.00		
28-Jan-19	1295	349.88	0	0.00		
29-Jan-19	1280	346.06	0	0.00		
30-Jan-19	1295	349.95	0	0.00		
31-Jan-19	0	0.00	0	0.00	1.13	
01-Feb-19	1285	347.23	0	0.00		
02-Feb-19	1284	347.14	0	0.00		
03-Feb-19	1287	347.76	0	0.00		
04-Feb-19	1282	346.61	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	1293	349.52	0	0.00		
07-Feb-19	1282	346.56	0	0.00		
08-Feb-19	1232	332.97	0	0.00		
09-Feb-19	1303	352.08	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	1288	348.22	0	0.00		
12-Feb-19	1280	345.95	0	0.00		
13-Feb-19	1291	348.79	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	1301	351.74	0	0.00		
16-Feb-19	1294	349.61	0	0.00		
17-Feb-19	1294	349.67	0	0.00		
18-Feb-19	1287	347.89	0	0.00		
19-Feb-19	1294	349.76	0	0.00		
20-Feb-19	0	0.00	0	0.00		
21-Feb-19	1277	345.13	0	0.00		
22-Feb-19	1209	326.68	0	0.00		
23-Feb-19	1292	349.12	0	0.00		
24-Feb-19	1270	343.14	0	0.00		
25-Feb-19	1322	357.43	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	1306	353.07	0	0.00		
28-Feb-19	1294	349.64	0	0.00	0.00	
01-Mar-19	1286	347.65	0	0.00		
02-Mar-19	1286	347.52	0	0.00		
03-Mar-19	0	0.00	0	0.00		
04-Mar-19	1289	348.28	0	0.00		
05-Mar-19	1308	353.50	0	0.00		
06-Mar-19	1296	350.16	0	0.00		
07-Mar-19	1301	351.63	0	0.00		
08-Mar-19	1292	349.19	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	1288	348.18	0	0.00		
11-Mar-19	1297	350.61	0	0.00		
12-Mar-19	1307	353.26	0	0.00		
13-Mar-19	0	0.00	0	0.00		
14-Mar-19	1293	349.55	0	0.00		
15-Mar-19	1286	347.51	0	0.00		
16-Mar-19	1303	352.27	0	0.00		
17-Mar-19	1296	350.21	0	0.00		
18-Mar-19	787	212.83	0	0.00		
19-Mar-19	508	137.42	0	0.00		
20-Mar-19	1282	346.56	0	0.00		
21-Mar-19	1287	347.93	0	0.00		
22-Mar-19	1253	338.74	0	0.00		
23-Mar-19	1313	354.90	0	0.00		
24-Mar-19	1297	350.45	0	0.00		
25-Mar-19	1302	351.97	0	0.00		
26-Mar-19	0	0.00	0	0.00		
27-Mar-19	1294	349.76	0	0.00		
28-Mar-19	1283	346.84	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	1299	351.05	0	0.00		
31-Mar-19	1325	358.17	0	0.00	0.00	
01-Apr-19	1301	351.62	0	0.00		
02-Apr-19	1291	348.85	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	1294	349.80	0	0.00		
05-Apr-19	1301	351.60	0	0.00		
06-Apr-19	1292	349.06	0	0.00		
07-Apr-19	1296	350.30	0	0.00		
08-Apr-19	0	0.00	0	0.00		
09-Apr-19	1293	349.47	0	0.00		
10-Apr-19	1298	350.88	0	0.00		
11-Apr-19	1294	349.82	0	0.00		
12-Apr-19	1288	348.10	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	1299	351.04	0	0.00		
15-Apr-19	1278	345.44	0	0.00		
16-Apr-19	1303	352.16	0	0.00		
17-Apr-19	1300	351.48	0	0.00		
18-Apr-19	48	12.97	61	16.52		
19-Apr-19	1730	467.64	0	0.00		
20-Apr-19	1661	448.82	0	0.00		
21-Apr-19	1650	446.03	0	0.00		

PHASE 9A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	1653	446.82	0	0.00		
23-Apr-19	1651	446.11	0	0.00		
24-Apr-19	0	0.00	0	0.00		
25-Apr-19	1668	450.74	0	0.00		
26-Apr-19	1660	448.72	0	0.00		
27-Apr-19	1639	442.96	0	0.00		
28-Apr-19	1681	454.35	0	0.00		
29-Apr-19	1665	449.92	0	0.00		
30-Apr-19	1651	446.30	0	0.00	0.55	
01-May-19	1653	446.65	0	0.00		
02-May-19	1656	447.65	0	0.00		
03-May-19	1657	447.71	0	0.00		
04-May-19	1664	449.74	0	0.00		
05-May-19	1665	449.87	0	0.00		
06-May-19	1661	448.83	0	0.00		
07-May-19	1663	449.40	0	0.00		
08-May-19	1665	449.90	0	0.00		
09-May-19	1648	445.34	0	0.00		
10-May-19	0	0.00	0	0.00		
11-May-19	1651	446.09	0	0.00		
12-May-19	1661	448.90	0	0.00		
13-May-19	1662	449.28	0	0.00		
14-May-19	1658	448.12	0	0.00		
15-May-19	1660	448.69	0	0.00		
16-May-19	3325	898.56	0	0.00		
17-May-19	1660	448.76	0	0.00		
18-May-19	1665	450.02	0	0.00		
19-May-19	1651	446.26	0	0.00		
20-May-19	0	0.00	0	0.00		
21-May-19	1665	449.97	0	0.00		
22-May-19	1775	479.81	0	0.00		
23-May-19	1915	517.57	0	0.00		
24-May-19	1326	358.39	0	0.00		
25-May-19	3314	895.59	0	0.00		
26-May-19	1662	449.12	0	0.00		
27-May-19	1663	449.51	0	0.00		
28-May-19	1585	428.45	0	0.00		
29-May-19	1648	445.36	0	0.00		
30-May-19	1661	448.85	0	0.00		
31-May-19	1663	449.59	0	0.00	0.00	
01-Jun-19	1656	447.50	0	0.00		
02-Jun-19	3290	889.09	0	0.00		
03-Jun-19	1668	450.88	0	0.00		
04-Jun-19	1649	445.79	0	0.00		
05-Jun-19	1651	446.16	0	0.00		
06-Jun-19	1652	446.48	0	0.00		
07-Jun-19	1653	446.72	0	0.00		
08-Jun-19	1660	448.73	0	0.00		
09-Jun-19	1653	446.77	0	0.00		
10-Jun-19	1647	445.03	0	0.00		
11-Jun-19	1648	445.29	0	0.00		
12-Jun-19	1661	449.04	83	22.54		
13-Jun-19	3292	889.64	0	0.00		
14-Jun-19	1657	447.93	0	0.00		
15-Jun-19	1642	443.71	0	0.00		
16-Jun-19	1648	445.31	0	0.00		
17-Jun-19	1653	446.78	0	0.00		
18-Jun-19	1654	447.02	0	0.00		
19-Jun-19	1655	447.30	0	0.00		
20-Jun-19	1658	448.10	0	0.00		
21-Jun-19	1724	465.82	0	0.00		
22-Jun-19	3283	887.36	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	2084	563.32	0	0.00		
25-Jun-19	1657	447.88	0	0.00		
26-Jun-19	3302	892.47	0	0.00		
27-Jun-19	1652	446.39	0	0.00		
28-Jun-19	1646	444.91	0	0.00		
29-Jun-19	1644	444.36	0	0.00		
30-Jun-19	1654	447.14	0	0.00	0.75	
01-Jul-19	1643	444.14	0	0.00		
02-Jul-19	1649	445.63	0	0.00		
03-Jul-19	1655	447.22	0	0.00		
04-Jul-19	1652	446.45	0	0.00		
05-Jul-19	1647	445.24	0	0.00		
06-Jul-19	1642	443.69	0	0.00		
07-Jul-19	1650	446.01	0	0.00		
08-Jul-19	1650	445.88	0	0.00		
09-Jul-19	1648	445.53	0	0.00		
10-Jul-19	1533	414.19	0	0.00		
11-Jul-19	1644	444.23	0	0.00		
12-Jul-19	1641	443.53	0	0.00		
13-Jul-19	1652	446.35	0	0.00		
14-Jul-19	1643	444.13	0	0.00		
15-Jul-19	1637	442.38	0	0.00		
16-Jul-19	1627	439.73	0	0.00		
17-Jul-19	1644	444.43	0	0.00		
18-Jul-19	1653	446.77	0	0.00		
19-Jul-19	1631	440.86	0	0.00		
20-Jul-19	1634	441.60	0	0.00		
21-Jul-19	1636	442.04	0	0.00		
22-Jul-19	1641	443.61	0	0.00		
23-Jul-19	1648	445.31	0	0.00		
24-Jul-19	1630	440.46	0	0.00		
25-Jul-19	1630	440.64	0	0.00		
26-Jul-19	1620	437.89	0	0.00		
27-Jul-19	1623	438.55	0	0.00		
28-Jul-19	1624	438.92	0	0.00		
29-Jul-19	1642	443.68	0	0.00		
30-Jul-19	1643	443.99	0	0.00		
31-Jul-19	1638	442.75	0	0.00	0.00	
01-Aug-19	1635	442.01	0	0.00		
02-Aug-19	1627	439.60	0	0.00		
03-Aug-19	1621	438.15	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	1625	439.29	0	0.00		
06-Aug-19	1622	438.41	0	0.00		
07-Aug-19	1617	436.98	0	0.00		
08-Aug-19	1620	437.92	0	0.00		
09-Aug-19	1623	438.76	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 9A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	1951	527.27	0	0.00		
13-Aug-19	1621	438.04	0	0.00		
14-Aug-19	1632	441.12	0	0.00		
15-Aug-19	1630	440.65	0	0.00		
16-Aug-19	1622	438.29	0	0.00		
17-Aug-19	1621	438.19	0	0.00		
18-Aug-19	1613	435.88	0	0.00		
19-Aug-19	1622	438.37	0	0.00		
20-Aug-19	1626	439.55	0	0.00		
21-Aug-19	1620	437.75	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	1630	440.56	0	0.00		
24-Aug-19	1632	441.10	0	0.00		
25-Aug-19	1623	438.53	0	0.00		
26-Aug-19	1612	435.73	0	0.00		
27-Aug-19	1649	445.68	0	0.00		
28-Aug-19	1630	440.54	0	0.00		
29-Aug-19	1640	443.24	0	0.00		
30-Aug-19	1650	445.95	0	0.00		
31-Aug-19	1630	440.54	0	0.00	0.00	
01-Sep-19	1635	441.89	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	1649	445.68	0	0.00		
04-Sep-19	1525	412.27	0	0.00		
05-Sep-19	3006	812.30	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	4062	1097.76	0	0.00		
11-Sep-19	1632	441.14	0	0.00		
12-Sep-19	1645	444.49	0	0.00		
13-Sep-19	1642	443.78	0	0.00		
14-Sep-19	1621	438.00	0	0.00		
15-Sep-19	1630	440.49	0	0.00		
16-Sep-19	1635	441.89	0	0.00		
17-Sep-19	1640	443.31	0	0.00		
18-Sep-19	1640	443.32	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	1627	439.84	0	0.00		
21-Sep-19	1640	443.16	0	0.00		
22-Sep-19	1623	438.53	0	0.00		
23-Sep-19	1631	440.80	0	0.00		
24-Sep-19	1640	443.13	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	1632	441.02	0	0.00		
27-Sep-19	1639	442.87	0	0.00		
28-Sep-19	1618	437.31	0	0.00		
29-Sep-19	1629	440.25	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	1613	435.92	0	0.00		
02-Oct-19	1628	440.07	0	0.00		
03-Oct-19	1618	437.37	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	1629	440.25	0	0.00		
06-Oct-19	1617	436.93	0	0.00		
07-Oct-19	1629	440.14	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	1634	441.60	0	0.00		
10-Oct-19	1622	438.45	0	0.00		
11-Oct-19	1625	439.10	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	1634	441.59	0	0.00		
14-Oct-19	1631	440.88	0	0.00		
15-Oct-19	1636	442.11	0	0.00		
16-Oct-19	1621	438.24	0	0.00		
17-Oct-19	0	0.00	0	0.00		
18-Oct-19	1641	443.53	0	0.00		
19-Oct-19	1627	439.62	0	0.00		
20-Oct-19	1614	436.31	0	0.00		
21-Oct-19	0	0.00	0	0.00		
22-Oct-19	1623	438.67	0	0.00		
23-Oct-19	1612	435.77	0	0.00		
24-Oct-19	1629	440.25	0	0.00		
25-Oct-19	0	0.00	0	0.00		
26-Oct-19	1621	438.22	0	0.00		
27-Oct-19	1597	431.69	0	0.00		
28-Oct-19	0	0.00	371	100.16		
29-Oct-19	1622	438.34	0	0.00		
30-Oct-19	1622	438.44	0	0.00		
31-Oct-19	1622	438.35	0	0.00	3.23	
01-Nov-19	0	0.00	0	0.00		
02-Nov-19	1766	477.17	0	0.00		
03-Nov-19	1634	441.71	0	0.00		
04-Nov-19	0	0.00	0	0.00		
05-Nov-19	1626	439.56	0	0.00		
06-Nov-19	1630	440.46	0	0.00		
07-Nov-19	1620	437.71	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	1633	441.28	0	0.00		
10-Nov-19	1626	439.39	0	0.00		
11-Nov-19	1459	394.25	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	1626	439.34	0	0.00		
14-Nov-19	1620	437.94	0	0.00		
15-Nov-19	0	0.00	0	0.00		
16-Nov-19	1623	438.64	0	0.00		
17-Nov-19	1621	438.07	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	1621	438.09	0	0.00		
20-Nov-19	1629	440.21	0	0.00		
21-Nov-19	1626	439.32	0	0.00		
22-Nov-19	0	0.00	0	0.00		
23-Nov-19	1636	442.14	0	0.00		
24-Nov-19	1620	437.80	0	0.00		
25-Nov-19	1638	442.62	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	1633	441.45	0	0.00		
28-Nov-19	1634	441.60	0	0.00		
29-Nov-19	0	0.00	0	0.00		

PHASE 9A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	1620	437.93	0	0.00	0.00	
01-Dec-19	1626	439.59	0	0.00		
02-Dec-19	1624	438.92	0	0.00		
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	1641	443.40	0	0.00		
05-Dec-19	1631	440.71	0	0.00		
06-Dec-19	158	42.60	271	73.26		
07-Dec-19	1478	399.55	0	0.00		
08-Dec-19	1615	436.58	0	0.00		
09-Dec-19	0	0.00	0	0.00		
10-Dec-19	1616	436.87	0	0.00		
11-Dec-19	1632	441.19	0	0.00		
12-Dec-19	1633	441.26	0	0.00		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	1608	434.51	0	0.00		
15-Dec-19	1655	447.42	0	0.00		
16-Dec-19	1632	441.02	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	1633	441.28	0	0.00		
19-Dec-19	1634	441.62	0	0.00		
20-Dec-19	1630	440.54	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	1619	437.61	0	0.00		
23-Dec-19	1620	437.82	0	0.00		
24-Dec-19	1655	447.32	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	1638	442.69	0	0.00		
27-Dec-19	1614	436.09	0	0.00		
28-Dec-19	1640	443.12	0	0.00		
29-Dec-19	1638	442.84	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	1631	440.85	0	0.00	2.36	

PHASE 9B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1080	196.36	0	0.00		
02-Jan-19	2200	400.00	0	0.00		
03-Jan-19	2200	400.00	0	0.00		
04-Jan-19	2110	383.64	0	0.00		
05-Jan-19	2080	378.18	0	0.00		
06-Jan-19	1160	210.91	0	0.00		
07-Jan-19	2300	418.18	0	0.00		
08-Jan-19	2280	414.55	0	0.00		
09-Jan-19	2242	407.64	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	4110	747.27	0	0.00		
12-Jan-19	2280	414.55	0	0.00		
13-Jan-19	2400	436.36	0	0.00		
14-Jan-19	2480	450.91	0	0.00		
15-Jan-19	3220	585.45	0	0.00		
16-Jan-19	1090	198.18	84	15.27		
17-Jan-19	2200	400.00	0	0.00		
18-Jan-19	1820	330.91	0	0.00		
19-Jan-19	2160	392.73	0	0.00		
20-Jan-19	2120	385.45	0	0.00		
21-Jan-19	2220	403.64	0	0.00		
22-Jan-19	2110	383.64	0	0.00		
23-Jan-19	1150	209.09	0	0.00		
24-Jan-19	1970	358.18	0	0.00		
25-Jan-19	4160	756.36	0	0.00		
26-Jan-19	2140	389.09	0	0.00		
27-Jan-19	3230	587.27	0	0.00		
28-Jan-19	2190	398.18	0	0.00		
29-Jan-19	2120	385.45	0	0.00		
30-Jan-19	2170	394.55	0	0.00		
31-Jan-19	2280	414.55	0	0.00	0.49	
01-Feb-19	3080	560.00	0	0.00		
02-Feb-19	2070	376.36	0	0.00		
03-Feb-19	2170	394.55	0	0.00		
04-Feb-19	2260	410.91	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	2480	450.91	0	0.00		
07-Feb-19	3620	658.18	0	0.00		
08-Feb-19	2320	421.82	0	0.00		
09-Feb-19	2150	390.91	0	0.00		
10-Feb-19	2150	390.91	0	0.00		
11-Feb-19	2210	401.82	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	3040	552.73	0	0.00		
14-Feb-19	2020	367.27	0	0.00		
15-Feb-19	2270	412.73	0	0.00		
16-Feb-19	2180	396.36	0	0.00		
17-Feb-19	2030	369.09	0	0.00		
18-Feb-19	1990	361.82	0	0.00		
19-Feb-19	2110	383.64	0	0.00		
20-Feb-19	1500	272.73	494	89.81		
21-Feb-19	2330	423.64	0	0.00		
22-Feb-19	2180	396.36	0	0.00		
23-Feb-19	2150	390.91	0	0.00		
24-Feb-19	2910	529.09	0	0.00		
25-Feb-19	3170	576.36	0	0.00		
26-Feb-19	2080	378.18	0	0.00		
27-Feb-19	2150	390.91	0	0.00		
28-Feb-19	2630	478.18	0	0.00	3.10	
01-Mar-19	2500	454.55	0	0.00		
02-Mar-19	2050	372.73	0	0.00		
03-Mar-19	1970	358.18	0	0.00		
04-Mar-19	2300	418.18	0	0.00		
05-Mar-19	2900	527.27	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	1810	329.09	0	0.00		
08-Mar-19	2430	441.82	0	0.00		
09-Mar-19	2110	383.64	0	0.00		
10-Mar-19	1960	356.36	0	0.00		
11-Mar-19	2840	516.36	0	0.00		
12-Mar-19	2120	385.45	0	0.00		
13-Mar-19	2050	372.73	1707	310.34		
14-Mar-19	2030	369.09	0	0.00		
15-Mar-19	1940	352.73	0	0.00		
16-Mar-19	2080	378.18	0	0.00		
17-Mar-19	1950	354.55	0	0.00		
18-Mar-19	1920	349.09	0	0.00		
19-Mar-19	2080	378.18	0	0.00		
20-Mar-19	2140	389.09	0	0.00		
21-Mar-19	0	0.00	0	0.00		
22-Mar-19	1143	207.82	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	1144	208.00	0	0.00		
27-Mar-19	0	0.00	0	0.00		
28-Mar-19	4092	744.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	0	0.00	0	0.00		
31-Mar-19	0	0.00	0	0.00	10.01	
01-Apr-19	5213	947.82	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	4268	776.00	0	0.00		
04-Apr-19	0	0.00	0	0.00		
05-Apr-19	0	0.00	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	4845	880.91	0	0.00		
09-Apr-19	4560	829.09	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	0	0.00	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	0	0.00	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	5105	928.18	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	0	0.00	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	0	0.00	0	0.00		

PHASE 9B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	0	0.00	0	0.00		
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	8495	1544.55	0	0.00		
25-Apr-19	12675	2304.55	0	0.00		
26-Apr-19	11620	2112.73	0	0.00		
27-Apr-19	8880	1614.55	0	0.00		
28-Apr-19	5950	1081.82	0	0.00		
29-Apr-19	5790	1052.73	0	0.00		
30-Apr-19	4500	818.18	0	0.00	0.00	
01-May-19	5740	1043.64	0	0.00		
02-May-19	4240	770.91	0	0.00		
03-May-19	4080	741.82	0	0.00		
04-May-19	4310	783.64	0	0.00		
05-May-19	4300	781.82	0	0.00		
06-May-19	2760	501.82	0	0.00		
07-May-19	4110	747.27	0	0.00		
08-May-19	4070	740.00	0	0.00		
09-May-19	2750	500.00	0	0.00		
10-May-19	4030	732.73	0	0.00		
11-May-19	2760	501.82	0	0.00		
12-May-19	4240	770.91	0	0.00		
13-May-19	2700	490.91	0	0.00		
14-May-19	4370	794.55	0	0.00		
15-May-19	2720	494.55	0	0.00		
16-May-19	2840	516.36	0	0.00		
17-May-19	4120	749.09	0	0.00		
18-May-19	2840	516.36	0	0.00		
19-May-19	2800	509.09	0	0.00		
20-May-19	2840	516.36	0	0.00		
21-May-19	4160	756.36	0	0.00		
22-May-19	2640	480.00	0	0.00		
23-May-19	2520	458.18	0	0.00		
24-May-19	4130	750.91	0	0.00		
25-May-19	2590	470.91	0	0.00		
26-May-19	2600	472.73	0	0.00		
27-May-19	4150	754.55	0	0.00		
28-May-19	2710	492.73	0	0.00		
29-May-19	2640	480.00	0	0.00		
30-May-19	2760	501.82	252	45.73		
31-May-19	4090	743.64	0	0.00	1.48	
01-Jun-19	2810	510.91	0	0.00		
02-Jun-19	2920	530.91	0	0.00		
03-Jun-19	2730	496.36	0	0.00		
04-Jun-19	2790	507.27	0	0.00		
05-Jun-19	2710	492.73	0	0.00		
06-Jun-19	2830	514.55	0	0.00		
07-Jun-19	3000	545.45	0	0.00		
08-Jun-19	2820	512.73	0	0.00		
09-Jun-19	3930	714.55	0	0.00		
10-Jun-19	2580	469.09	0	0.00		
11-Jun-19	2870	521.82	0	0.00		
12-Jun-19	2810	510.91	54	9.73		
13-Jun-19	2780	505.45	0	0.00		
14-Jun-19	2790	507.27	0	0.00		
15-Jun-19	3380	614.55	0	0.00		
16-Jun-19	3460	629.09	0	0.00		
17-Jun-19	2680	487.27	0	0.00		
18-Jun-19	2690	489.09	0	0.00		
19-Jun-19	2670	485.45	0	0.00		
20-Jun-19	2840	516.36	0	0.00		
21-Jun-19	2850	518.18	0	0.00		
22-Jun-19	2770	503.64	0	0.00		
23-Jun-19	1520	276.36	0	0.00		
24-Jun-19	4440	807.27	0	0.00		
25-Jun-19	2810	510.91	0	0.00		
26-Jun-19	2790	507.27	0	0.00		
27-Jun-19	4170	758.18	0	0.00		
28-Jun-19	2530	460.00	0	0.00		
29-Jun-19	2670	485.45	0	0.00		
30-Jun-19	3350	609.09	0	0.00	0.32	
01-Jul-19	2690	489.09	0	0.00		
02-Jul-19	2960	538.18	0	0.00		
03-Jul-19	2720	494.55	0	0.00		
04-Jul-19	2680	487.27	0	0.00		
05-Jul-19	3980	723.64	0	0.00		
06-Jul-19	2630	478.18	0	0.00		
07-Jul-19	2700	490.91	0	0.00		
08-Jul-19	2620	476.36	0	0.00		
09-Jul-19	2820	512.73	0	0.00		
10-Jul-19	2810	510.91	0	0.00		
11-Jul-19	2800	509.09	0	0.00		
12-Jul-19	3180	578.18	0	0.00		
13-Jul-19	3600	654.55	0	0.00		
14-Jul-19	2620	476.36	0	0.00		
15-Jul-19	2810	510.91	0	0.00		
16-Jul-19	2830	514.55	0	0.00		
17-Jul-19	2680	487.27	0	0.00		
18-Jul-19	2680	487.27	0	0.00		
19-Jul-19	4120	749.09	0	0.00		
20-Jul-19	2640	480.00	0	0.00		
21-Jul-19	3150	572.73	0	0.00		
22-Jul-19	2840	516.36	0	0.00		
23-Jul-19	2950	536.36	0	0.00		
24-Jul-19	2940	534.55	0	0.00		
25-Jul-19	2790	507.27	0	0.00		
26-Jul-19	2880	523.64	0	0.00		
27-Jul-19	2800	509.09	0	0.00		
28-Jul-19	2930	532.73	0	0.00		
29-Jul-19	2660	483.64	0	0.00		
30-Jul-19	2610	474.55	0	0.00		
31-Jul-19	2740	498.18	0	0.00	0.00	
01-Aug-19	2780	505.45	0	0.00		
02-Aug-19	2960	538.18	0	0.00		
03-Aug-19	2800	509.09	0	0.00		
04-Aug-19	2770	503.64	0	0.00		
05-Aug-19	3000	545.45	0	0.00		
06-Aug-19	2310	420.00	0	0.00		
07-Aug-19	0	0.00	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	10	1.82	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 9B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	7560	1374.55	0	0.00		
13-Aug-19	6620	1203.64	0	0.00		
14-Aug-19	3300	600.00	0	0.00		
15-Aug-19	3980	723.64	0	0.00		
16-Aug-19	4010	729.09	0	0.00		
17-Aug-19	3890	707.27	0	0.00		
18-Aug-19	2830	514.55	0	0.00		
19-Aug-19	3650	663.64	0	0.00		
20-Aug-19	3650	663.64	0	0.00		
21-Aug-19	4640	843.64	0	0.00		
22-Aug-19	5210	947.27	0	0.00		
23-Aug-19	3990	725.45	0	0.00		
24-Aug-19	2720	494.55	0	0.00		
25-Aug-19	4050	736.36	0	0.00		
26-Aug-19	2430	441.82	0	0.00		
27-Aug-19	3820	694.55	22	3.97		
28-Aug-19	2790	507.27	0	0.00		
29-Aug-19	3780	687.27	0	0.00		
30-Aug-19	3390	616.36	0	0.00		
31-Aug-19	3110	565.45	0	0.00	0.13	
01-Sep-19	4390	798.18	0	0.00		
02-Sep-19	3080	560.00	0	0.00		
03-Sep-19	1667	303.09	18	3.18		
04-Sep-19	2971	540.22	0	0.00		
05-Sep-19	4200	763.69	0	0.00		
06-Sep-19	1579	287.15	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	11938	2170.58	0	0.00		
11-Sep-19	4664	848.05	0	0.00		
12-Sep-19	3098	563.27	0	0.00		
13-Sep-19	4738	861.40	0	0.00		
14-Sep-19	3077	559.40	0	0.00		
15-Sep-19	3055	555.44	0	0.00		
16-Sep-19	3108	565.16	0	0.00		
17-Sep-19	3228	586.95	0	0.00		
18-Sep-19	3000	545.53	0	0.00		
19-Sep-19	2993	544.26	0	0.00		
20-Sep-19	2950	536.28	0	0.00		
21-Sep-19	2969	539.80	0	0.00		
22-Sep-19	3426	622.96	0	0.00		
23-Sep-19	3091	561.97	0	0.00		
24-Sep-19	4806	873.88	67	12.18		
25-Sep-19	3168	576.01	0	0.00		
26-Sep-19	3106	564.64	0	0.00		
27-Sep-19	3124	568.08	0	0.00		
28-Sep-19	3060	556.43	0	0.00		
29-Sep-19	3097	563.05	0	0.00		
30-Sep-19	3042	553.12	0	0.00	0.51	
01-Oct-19	3279	596.16	0	0.00		
02-Oct-19	3059	556.17	0	0.00		
03-Oct-19	3105	564.53	0	0.00		
04-Oct-19	3241	589.26	0	0.00		
05-Oct-19	3029	550.78	0	0.00		
06-Oct-19	1989	361.62	0	0.00		
07-Oct-19	2632	478.59	0	0.00		
08-Oct-19	3076	559.34	0	0.00		
09-Oct-19	3017	548.54	0	0.00		
10-Oct-19	2937	534.01	0	0.00		
11-Oct-19	3105	564.63	0	0.00		
12-Oct-19	3196	581.11	0	0.00		
13-Oct-19	3328	605.07	0	0.00		
14-Oct-19	1565	284.53	0	0.00		
15-Oct-19	3220	585.48	0	0.00		
16-Oct-19	3011	547.51	0	0.00		
17-Oct-19	2870	521.73	105	19.09		
18-Oct-19	3134	569.82	0	0.00		
19-Oct-19	3009	547.07	0	0.00		
20-Oct-19	3086	561.05	0	0.00		
21-Oct-19	3165	575.48	0	0.00		
22-Oct-19	3006	546.50	0	0.00		
23-Oct-19	19664	3575.22	0	0.00		
24-Oct-19	3062	556.81	0	0.00		
25-Oct-19	2989	543.40	0	0.00		
26-Oct-19	3019	548.82	0	0.00		
27-Oct-19	3039	552.63	0	0.00		
28-Oct-19	2938	534.21	0	0.00		
29-Oct-19	3072	558.50	0	0.00		
30-Oct-19	3055	555.45	0	0.00		
31-Oct-19	2987	543.13	0	0.00	0.62	
01-Nov-19	377	68.63	0	0.01		
02-Nov-19	4823	876.97	0	0.00		
03-Nov-19	3074	558.93	0	0.00		
04-Nov-19	3103	564.27	186	33.78		
05-Nov-19	3139	570.65	0	0.00		
06-Nov-19	3058	556.06	0	0.00		
07-Nov-19	3057	555.83	0	0.00		
08-Nov-19	2880	523.66	0	0.00		
09-Nov-19	2927	532.19	0	0.00		
10-Nov-19	2910	529.04	0	0.00		
11-Nov-19	2999	545.24	0	0.00		
12-Nov-19	2982	542.16	0	0.00		
13-Nov-19	2944	535.26	0	0.00		
14-Nov-19	3061	556.62	0	0.00		
15-Nov-19	1862	338.63	0	0.00		
16-Nov-19	3016	548.31	0	0.00		
17-Nov-19	2985	542.79	0	0.00		
18-Nov-19	2954	537.16	0	0.00		
19-Nov-19	2980	541.74	0	0.00		
20-Nov-19	3110	565.38	0	0.00		
21-Nov-19	2948	536.02	0	0.00		
22-Nov-19	2935	533.67	0	0.00		
23-Nov-19	2959	538.08	0	0.00		
24-Nov-19	2770	503.71	0	0.00		
25-Nov-19	2917	530.31	0	0.00		
26-Nov-19	2894	526.16	0	0.00		
27-Nov-19	4123	749.55	0	0.00		
28-Nov-19	1835	333.58	0	0.00		
29-Nov-19	4418	803.31	0	0.00		

PHASE 9B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	2934	533.38	0	0.00	1.13	
01-Dec-19	2901	527.49	0	0.00		
02-Dec-19	3009	547.02	267	48.54		
03-Dec-19	2977	541.35	0	0.00		
04-Dec-19	2876	522.95	0	0.00		
05-Dec-19	3049	554.41	0	0.00		
06-Dec-19	2969	539.82	213	38.73		
07-Dec-19	3019	548.83	0	0.00		
08-Dec-19	2930	532.65	0	0.00		
09-Dec-19	2884	524.41	0	0.00		
10-Dec-19	2978	541.50	0	0.00		
11-Dec-19	2969	539.74	0	0.00		
12-Dec-19	3028	550.56	0	0.00		
13-Dec-19	2984	542.63	0	0.00		
14-Dec-19	2932	533.08	0	0.00		
15-Dec-19	4476	813.74	0	0.00		
16-Dec-19	3013	547.73	0	0.00		
17-Dec-19	2918	530.50	0	0.00		
18-Dec-19	2959	537.97	0	0.00		
19-Dec-19	2129	387.09	0	0.00		
20-Dec-19	2870	521.82	0	0.00		
21-Dec-19	3057	555.73	0	0.00		
22-Dec-19	2943	535.16	0	0.00		
23-Dec-19	2979	541.55	0	0.00		
24-Dec-19	2971	540.11	0	0.00		
25-Dec-19	2915	530.09	0	0.00		
26-Dec-19	2942	534.86	0	0.00		
27-Dec-19	4197	763.12	0	0.00		
28-Dec-19	2958	537.90	0	0.00		
29-Dec-19	3007	546.75	0	0.00		
30-Dec-19	3040	552.69	0	0.00		
31-Dec-19	2955	537.28	0	0.00	2.82	

PHASE 9C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	0	0.00	0	0.00		
02-Jan-19	0	0.00	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	5645	3320.47	0	0.00		
05-Jan-19	0	0.00	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	0	0.00	0	0.00		
08-Jan-19	5355	3150.22	0	0.00		
09-Jan-19	0	0.00	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	6137	3610.05	0	0.00		
14-Jan-19	0	0.00	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	0	0.00	0	0.00		
17-Jan-19	1359	799.59	0	0.00		
18-Jan-19	4386	2580.00	0	0.00		
19-Jan-19	0	0.00	0	0.00		
20-Jan-19	0	0.00	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	5911	3477.35	0	0.00		
23-Jan-19	0	0.00	0	0.00		
24-Jan-19	0	0.00	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	5821	3424.24	0	0.00		
27-Jan-19	0	0.00	0	0.00		
28-Jan-19	0	0.00	0	0.00		
29-Jan-19	0	0.00	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	5784	3402.62	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	0	0.00	0	0.00		
03-Feb-19	0	0.00	0	0.00		
04-Feb-19	5101	3000.53	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	4889	2876.12	0	0.00		
08-Feb-19	0	0.00	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	5269	3099.54	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	5075	2985.57	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	4505	2650.25	0	0.00		
18-Feb-19	1045	614.96	0	0.00		
19-Feb-19	1377	810.18	0	0.00		
20-Feb-19	1592	936.19	0	0.00		
21-Feb-19	0	0.00	0	0.00		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	4927	2898.44	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	4981	2930.05	0	0.00		
28-Feb-19	0	0.00	0	0.00	0.00	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	5600	3294.31	0	0.00		
04-Mar-19	0	0.00	0	0.00		
05-Mar-19	0	0.00	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	5572	3277.49	0	0.00		
08-Mar-19	0	0.00	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	4936	2903.75	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	0	0.00	0	0.00		
13-Mar-19	0	0.00	0	0.00		
14-Mar-19	0	0.00	0	0.00		
15-Mar-19	5546	3262.44	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	0	0.00	0	0.00		
18-Mar-19	0	0.00	0	0.00		
19-Mar-19	0	0.00	0	0.00		
20-Mar-19	6247	3674.73	0	0.00		
21-Mar-19	3299	1940.63	0	0.00		
22-Mar-19	17	9.84	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	0	0.00	0	0.00		
27-Mar-19	6633	3901.53	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	0	0.00	0	0.00		
31-Mar-19	6042	3554.34	0	0.00	0.00	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	5804	3413.99	0	0.00		
05-Apr-19	0	0.00	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	5259	3093.78	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	4707	2768.91	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	4201	2471.20	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	0	0.00	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	0	0.00	0	0.00		

PHASE 9C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	0	0.00	0	0.00		
23-Apr-19	8630	5076.57	0	0.00		
24-Apr-19	2637	1551.21	0	0.00		
25-Apr-19	0	0.00	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	4957	2916.08	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	0	0.00	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.00	
01-May-19	5836	3432.75	0	0.00		
02-May-19	0	0.00	0	0.00		
03-May-19	0	0.00	0	0.00		
04-May-19	0	0.00	0	0.00		
05-May-19	5826	3426.93	0	0.00		
06-May-19	0	0.00	0	0.00		
07-May-19	0	0.00	0	0.00		
08-May-19	0	0.00	0	0.00		
09-May-19	5630	3311.97	0	0.00		
10-May-19	0	0.00	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	4892	2877.57	0	0.00		
13-May-19	0	0.00	0	0.00		
14-May-19	0	0.00	0	0.00		
15-May-19	0	0.00	0	0.00		
16-May-19	5993	3525.28	0	0.00		
17-May-19	0	0.00	0	0.00		
18-May-19	0	0.00	0	0.00		
19-May-19	0	0.00	0	0.00		
20-May-19	0	0.00	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	6999	4117.20	0	0.00		
23-May-19	0	0.00	0	0.00		
24-May-19	0	0.00	0	0.00		
25-May-19	0	0.00	0	0.00		
26-May-19	6329	3723.18	0	0.00		
27-May-19	0	0.00	0	0.00		
28-May-19	0	0.00	0	0.00		
29-May-19	0	0.00	0	0.00		
30-May-19	5711	3359.49	27	15.69		
31-May-19	0	0.00	0	0.00	0.51	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	0	0.00	0	0.00		
03-Jun-19	5888	3463.32	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	0	0.00	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	941	553.40	0	0.00		
08-Jun-19	5700	3353.06	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	0	0.00	0	0.00		
11-Jun-19	5414	3184.47	0	0.00		
12-Jun-19	0	0.00	0	0.00		
13-Jun-19	0	0.00	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	0	0.00	0	0.00		
16-Jun-19	7325	4308.73	0	0.00		
17-Jun-19	0	0.00	0	0.00		
18-Jun-19	3461	2035.60	0	0.00		
19-Jun-19	0	0.00	0	0.00		
20-Jun-19	0	0.00	0	0.00		
21-Jun-19	5289	3111.40	0	0.00		
22-Jun-19	0	0.00	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	0	0.00	0	0.00		
25-Jun-19	5186	3050.77	0	0.00		
26-Jun-19	0	0.00	0	0.00		
27-Jun-19	0	0.00	0	0.00		
28-Jun-19	5409	3181.75	0	0.00		
29-Jun-19	466	273.93	0	0.00		
30-Jun-19	0	0.00	0	0.00	0.00	
01-Jul-19	0	0.00	0	0.00		
02-Jul-19	5393	3172.54	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	0	0.00	0	0.00		
05-Jul-19	0	0.00	0	0.00		
06-Jul-19	5608	3298.76	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	0	0.00	0	0.00		
09-Jul-19	0	0.00	0	0.00		
10-Jul-19	5912	3477.49	0	0.00		Defective tarp allowed stormwater into secondary collection system. Item resolved and reported to the MDEP on 7/13/04
11-Jul-19	0	0.00	0	0.00		
12-Jul-19	0	0.00	0	0.00		
13-Jul-19	5009	2946.22	0	0.00		
14-Jul-19	0	0.00	0	0.00		
15-Jul-19	0	0.00	0	0.00		
16-Jul-19	0	0.00	0	0.00		
17-Jul-19	5651	3324.32	0	0.00		
18-Jul-19	0	0.00	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	5846	3438.80	0	0.00		
21-Jul-19	0	0.00	0	0.00		
22-Jul-19	0	0.00	0	0.00		
23-Jul-19	5808	3416.42	0	0.00		
24-Jul-19	0	0.00	0	0.00		
25-Jul-19	0	0.00	0	0.00		
26-Jul-19	0	0.00	0	0.00		
27-Jul-19	5607	3298.35	0	0.00		
28-Jul-19	0	0.00	0	0.00		
29-Jul-19	0	0.00	0	0.00		
30-Jul-19	5573	3277.96	0	0.00		
31-Jul-19	0	0.00	0	0.00	0.00	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	0	0.00	0	0.00		
03-Aug-19	0	0.00	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	0	0.00	0	0.00		
06-Aug-19	9764	5743.57	0	0.00		
07-Aug-19	0	0.00	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	0	0.00	0	0.00		

PHASE 9C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
10-Aug-19	0	0.00	0	0.00		
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	0	0.00	0	0.00		
13-Aug-19	5798	3410.32	0	0.00		
14-Aug-19	0	0.00	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	0	0.00	0	0.00		
17-Aug-19	5802	3413.13	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	0	0.00	0	0.00		
21-Aug-19	5810	3417.72	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	0	0.00	0	0.00		
24-Aug-19	309	181.72	0	0.00		
25-Aug-19	5857	3445.22	0	0.00		
26-Aug-19	0	0.00	0	0.00		
27-Aug-19	0	0.00	0	0.00		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	6847	4027.65	0	0.00		
30-Aug-19	0	0.00	0	0.00		
31-Aug-19	0	0.00	0	0.00	0.00	
01-Sep-19	0	0.00	0	0.00		
02-Sep-19	1667	980.59	0	0.00		
03-Sep-19	1582	930.59	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	5572	3277.53	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	7963	4684.12	0	0.00		
11-Sep-19	0	0.00	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	0	0.00	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	0	0.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	0	0.00	0	0.00		
21-Sep-19	0	0.00	0	0.00		
22-Sep-19	0	0.00	0	0.00		
23-Sep-19	8463	4978.40	0	0.00		
24-Sep-19	0	0.00	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	0	0.00	0	0.00		
27-Sep-19	0	0.00	0	0.00		
28-Sep-19	0	0.00	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	7965	4685.13	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	0	0.00	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	0	0.00	0	0.00		
06-Oct-19	0	0.00	0	0.00		
07-Oct-19	0	0.00	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	7544	4437.93	0	0.00		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	0	0.00	0	0.00		
16-Oct-19	0	0.00	0	0.00		
17-Oct-19	8313	4889.81	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	0	0.00	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	0	0.00	0	0.00		
22-Oct-19	0	0.00	0	0.00		
23-Oct-19	0	0.00	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	0	0.00	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	7696	4527.29	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	0	0.00	0	0.00		
30-Oct-19	0	0.00	0	0.00		
31-Oct-19	0	0.00	0	0.00	0.00	
01-Nov-19	0	0.00	0	0.00		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	0	0.00	78	45.88		
04-Nov-19	0	0.00	0	0.00		
05-Nov-19	0	0.00	0	0.00		
06-Nov-19	0	0.00	0	0.00		
07-Nov-19	7083	4166.67	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	0	0.00	0	0.00		
10-Nov-19	0	0.00	0	0.00		
11-Nov-19	0	0.00	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	0	0.00	0	0.00		
15-Nov-19	7199	4234.57	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	0	0.00	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	0	0.00	0	0.00		
21-Nov-19	0	0.00	0	0.00		
22-Nov-19	8028	4722.36	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	0	0.00	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	0	0.00	0	0.00		
28-Nov-19	0	0.00	0	0.00		

PHASE 9C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
29-Nov-19	0	0.00	0	0.00		
30-Nov-19	0	0.00	0	0.00	1.53	
01-Dec-19	8292	4877.60	0	0.00		
02-Dec-19	0	0.00	0	0.00		
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	0	0.00	0	0.00		
06-Dec-19	0	0.00	120	70.59		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	0	0.00	0	0.00		
09-Dec-19	8436	4962.32	0	0.00		
10-Dec-19	0	0.00	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	0	0.00	188	110.59		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	0	0.00	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	0	0.00	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	0	0.00	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	7611	4476.92	0	0.00		
23-Dec-19	0	0.00	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	0	0.00	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	0	0.00	0	0.00	5.84	

PHASE 10A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	0	0.00	0	0.00		
02-Jan-19	0	0.00	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	1230	307.50	0	0.00		
05-Jan-19	0	0.00	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	0	0.00	0	0.00		
08-Jan-19	1768	442.00	0	0.00		
09-Jan-19	0	0.00	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	1836	459.00	0	0.00		
14-Jan-19	0	0.00	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	0	0.00	0	0.00		
17-Jan-19	0	0.00	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	0	0.00	0	0.00		
20-Jan-19	0	0.00	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	0	0.00	0	0.00		
23-Jan-19	0	0.00	0	0.00		
24-Jan-19	1230	307.50	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	1620	405.00	0	0.00		
27-Jan-19	0	0.00	0	0.00		
28-Jan-19	2080	520.00	0	0.00		
29-Jan-19	0	0.00	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	0	0.00	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	0	0.00	0	0.00		
03-Feb-19	1320	330.00	0	0.00		
04-Feb-19	0	0.00	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	0	0.00	0	0.00		
08-Feb-19	0	0.00	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	3900	975.00	0	0.00		
14-Feb-19	1700	425.00	0	0.00		
15-Feb-19	660	165.00	0	0.00		
16-Feb-19	1224	306.00	0	0.00		
17-Feb-19	1440	360.00	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	0	0.00	0	0.00		
20-Feb-19	0	0.00	0	0.00		
21-Feb-19	1703	425.76	138	34.47		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	0	0.00	0	0.00		
25-Feb-19	1530	382.50	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	0	0.00	0	0.00		
28-Feb-19	0	0.00	0	0.00	1.19	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	0	0.00	0	0.00		
04-Mar-19	0	0.00	0	0.00		
05-Mar-19	0	0.00	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	0	0.00	0	0.00		
08-Mar-19	0	0.00	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	0	0.00	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	0	0.00	0	0.00		
13-Mar-19	140	35.00	9	2.13		
14-Mar-19	0	0.00	0	0.00		
15-Mar-19	0	0.00	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	0	0.00	0	0.00		
18-Mar-19	0	0.00	0	0.00		
19-Mar-19	0	0.00	0	0.00		
20-Mar-19	0	0.00	0	0.00		
21-Mar-19	0	0.00	0	0.00		
22-Mar-19	0	0.00	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	330	82.50	0	0.00		
27-Mar-19	0	0.00	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	0	0.00	0	0.00		
31-Mar-19	0	0.00	0	0.00	0.07	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	5367	1341.86	3	0.87		
04-Apr-19	285	71.36	0	0.00		
05-Apr-19	973	243.29	0	0.00		
06-Apr-19	377	94.16	0	0.00		
07-Apr-19	832	208.08	0	0.00		
08-Apr-19	433	108.22	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	439	109.78	0	0.00		
11-Apr-19	447	111.75	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	454	113.46	0	0.00		
14-Apr-19	442	110.51	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	452	113.03	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	450	112.38	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	501	125.36	0	0.00		
21-Apr-19	0	0.00	0	0.00		

PHASE 10A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	469	117.32	0	0.00		
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	0	0.00	0	0.00		
25-Apr-19	460	114.94	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	448	111.93	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	518	129.60	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.03	
01-May-19	445	111.31	0	0.00		
02-May-19	0	0.00	0	0.00		
03-May-19	0	0.00	0	0.00		
04-May-19	455	113.80	0	0.00		
05-May-19	0	0.00	0	0.00		
06-May-19	460	115.12	0	0.00		
07-May-19	0	0.00	0	0.00		
08-May-19	448	112.06	0	0.00		
09-May-19	0	0.00	0	0.00		
10-May-19	436	109.12	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	0	0.00	0	0.00		
13-May-19	427	106.74	0	0.00		
14-May-19	0	0.00	0	0.00		
15-May-19	413	103.23	0	0.00		
16-May-19	0	0.00	0	0.00		
17-May-19	411	102.80	0	0.00		
18-May-19	0	0.00	0	0.00		
19-May-19	422	105.53	0	0.00		
20-May-19	0	0.00	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	470	117.42	0	0.00		
23-May-19	0	0.00	0	0.00		
24-May-19	419	104.81	0	0.00		
25-May-19	0	0.00	0	0.00		
26-May-19	446	111.50	0	0.00		
27-May-19	0	0.00	0	0.00		
28-May-19	0	0.00	0	0.00		
29-May-19	451	112.65	0	0.00		
30-May-19	0	0.00	0	0.00		
31-May-19	504	125.95	0	0.00	0.00	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	0	0.00	0	0.00		
03-Jun-19	434	108.56	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	457	114.22	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	0	0.00	0	0.00		
08-Jun-19	452	113.05	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	465	116.25	0	0.00		
11-Jun-19	10	2.51	0	0.00		
12-Jun-19	0	0.00	19	4.65		
13-Jun-19	498	124.44	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	0	0.00	0	0.00		
16-Jun-19	507	126.76	0	0.00		
17-Jun-19	0	0.00	0	0.00		
18-Jun-19	0	0.00	0	0.00		
19-Jun-19	524	130.99	0	0.00		
20-Jun-19	0	0.00	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	498	124.46	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	0	0.00	0	0.00		
25-Jun-19	551	137.85	0	0.00		
26-Jun-19	0	0.00	0	0.00		
27-Jun-19	0	0.00	0	0.00		
28-Jun-19	563	140.82	0	0.00		
29-Jun-19	0	0.00	0	0.00		
30-Jun-19	0	0.00	0	0.00	0.16	
01-Jul-19	510	127.52	0	0.00		
02-Jul-19	0	0.00	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	521	130.20	0	0.00		
05-Jul-19	0	0.00	0	0.00		
06-Jul-19	0	0.00	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	533	133.33	0	0.00		
09-Jul-19	0	0.00	0	0.00		
10-Jul-19	0	0.00	0	0.00		
11-Jul-19	538	134.59	0	0.00		
12-Jul-19	0	0.00	0	0.00		
13-Jul-19	0	0.00	0	0.00		
14-Jul-19	565	141.32	0	0.00		
15-Jul-19	0	0.00	0	0.00		
16-Jul-19	0	0.00	0	0.00		
17-Jul-19	573	143.35	0	0.00		
18-Jul-19	0	0.00	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	0	0.00	0	0.00		
21-Jul-19	591	147.87	0	0.00		
22-Jul-19	0	0.00	0	0.00		
23-Jul-19	0	0.00	0	0.00		
24-Jul-19	601	150.19	0	0.00		
25-Jul-19	0	0.00	0	0.00		
26-Jul-19	0	0.00	0	0.00		
27-Jul-19	0	0.00	0	0.00		
28-Jul-19	641	160.23	0	0.00		
29-Jul-19	808	202.04	0	0.00		
30-Jul-19	0	0.00	0	0.00		
31-Jul-19	0	0.00	0	0.00	0.00	
01-Aug-19	702	175.50	0	0.00		
02-Aug-19	0	0.00	0	0.00		
03-Aug-19	0	0.00	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	754	188.50	0	0.00		
06-Aug-19	0	0.00	0	0.00		
07-Aug-19	0	0.00	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	385	96.25	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 10A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	0	0.00	0	0.00		
13-Aug-19	633	158.25	0	0.00		
14-Aug-19	553	138.25	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	0	0.00	0	0.00		
17-Aug-19	0	0.00	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	0	0.00	0	0.00		
21-Aug-19	0	0.00	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	684	171.00	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	532	133.00	0	0.00		
26-Aug-19	0	0.00	0	0.00		
27-Aug-19	0	0.00	7	1.83		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	422	105.50	0	0.00		
30-Aug-19	0	0.00	0	0.00		
31-Aug-19	0	0.00	0	0.00	0.06	
01-Sep-19	0	0.00	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	393	98.25	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	0	0.00	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	0	0.00	0	0.00		
11-Sep-19	499	124.85	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	0	0.00	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	0	0.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	0	0.00	0	0.00		
21-Sep-19	0	0.00	0	0.00		
22-Sep-19	0	0.00	0	0.00		
23-Sep-19	0	0.00	0	0.00		
24-Sep-19	906	226.46	0	0.00		
25-Sep-19	399	99.72	0	0.00		
26-Sep-19	405	101.22	0	0.00		
27-Sep-19	384	95.90	0	0.00		
28-Sep-19	361	90.15	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	0	0.00	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	0	0.00	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	0	0.00	0	0.00		
06-Oct-19	0	0.00	0	0.00		
07-Oct-19	0	0.00	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	889	222.18	0	0.00		
11-Oct-19	419	104.75	0	0.00		
12-Oct-19	434	108.44	0	0.00		
13-Oct-19	475	118.68	0	0.00		
14-Oct-19	625	156.13	0	0.00		
15-Oct-19	0	0.00	0	0.00		
16-Oct-19	628	157.11	0	0.00		
17-Oct-19	0	0.00	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	644	161.05	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	0	0.00	0	0.00		
22-Oct-19	670	167.62	0	0.00		
23-Oct-19	0	0.00	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	661	165.13	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	0	0.00	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	639	159.75	0	0.00		
30-Oct-19	0	0.00	0	0.00		
31-Oct-19	0	0.00	0	0.00	0.00	
01-Nov-19	650	162.50	0	0.00		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	0	0.00	0	0.00		
04-Nov-19	638	159.50	0	0.00		
05-Nov-19	1253	313.37	17	4.17		
06-Nov-19	61	15.18	0	0.00		
07-Nov-19	0	0.00	0	0.00		
08-Nov-19	33	8.15	0	0.00		
09-Nov-19	976	244.12	0	0.00		
10-Nov-19	0	0.00	0	0.00		
11-Nov-19	0	0.00	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	0	0.00	0	0.00		
15-Nov-19	0	0.00	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	0	0.00	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	1358	339.49	0	0.00		
21-Nov-19	0	0.00	0	0.00		
22-Nov-19	0	0.00	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	0	0.00	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	0	0.00	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	1293	323.23	0	0.00		

PHASE 10A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	0	0.00	0	0.00	0.14	
01-Dec-19	0	0.00	0	0.00		
02-Dec-19	0	0.00	0	0.00		
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	0	0.00	0	0.00		
06-Dec-19	0	0.00	234	58.50		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	1417	354.13	0	0.00		
09-Dec-19	0	0.00	0	0.00		
10-Dec-19	0	0.00	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	0	0.00	0	0.00		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	0	0.00	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	1425	356.15	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	0	0.00	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	0	0.00	0	0.00		
23-Dec-19	0	0.00	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	1429	357.15	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	0	0.00	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	0	0.00	0	0.00	1.89	

PHASE 10B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1375	335.39	0	0.00		
02-Jan-19	0	0.00	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	0	0.00	0	0.00		
05-Jan-19	0	0.00	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	0	0.00	0	0.00		
08-Jan-19	1736	423.53	0	0.00		
09-Jan-19	0	0.00	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	0	0.00	0	0.00		
14-Jan-19	1729	421.81	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	0	0.00	0	0.00		
17-Jan-19	0	0.00	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	0	0.00	0	0.00		
20-Jan-19	0	0.00	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	0	0.00	0	0.00		
23-Jan-19	0	0.00	0	0.00		
24-Jan-19	0	0.00	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	0	0.00	0	0.00		
27-Jan-19	0	0.00	0	0.00		
28-Jan-19	1480	360.98	0	0.00		
29-Jan-19	0	0.00	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	0	0.00	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	0	0.00	0	0.00		
03-Feb-19	0	0.00	0	0.00		
04-Feb-19	0	0.00	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	0	0.00	0	0.00		
08-Feb-19	0	0.00	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	0	0.00	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	0	0.00	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	0	0.00	0	0.00		
20-Feb-19	636	155.06	0	0.00		
21-Feb-19	1415	345.04	0	0.00		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	0	0.00	0	0.00		
25-Feb-19	1480	360.98	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	0	0.00	0	0.00		
28-Feb-19	0	0.00	0	0.00	0.00	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	0	0.00	0	0.00		
04-Mar-19	0	0.00	0	0.00		
05-Mar-19	0	0.00	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	0	0.00	0	0.00		
08-Mar-19	0	0.00	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	0	0.00	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	0	0.00	0	0.00		
13-Mar-19	0	0.00	0	0.00		
14-Mar-19	0	0.00	0	0.00		
15-Mar-19	0	0.00	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	0	0.00	0	0.00		
18-Mar-19	0	0.00	0	0.00		
19-Mar-19	0	0.00	0	0.00		
20-Mar-19	0	0.00	0	0.00		
21-Mar-19	0	0.00	0	0.00		
22-Mar-19	0	0.00	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	0	0.00	0	0.00		
27-Mar-19	0	0.00	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	0	0.00	0	0.00		
31-Mar-19	0	0.00	0	0.00	0.00	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	0	0.00	0	0.00		
05-Apr-19	0	0.00	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	0	0.00	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	2590	631.75	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	0	0.00	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	0	0.00	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	0	0.00	0	0.00		
22-Apr-19	0	0.00	0	0.00		

PHASE 10B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	0	0.00	0	0.00		
25-Apr-19	0	0.00	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	0	0.00	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	0	0.00	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.00	
01-May-19	0	0.00	0	0.00		
02-May-19	1454	354.54	202	49.33		
03-May-19	751	183.24	0	0.00		
04-May-19	563	137.21	0	0.00		
05-May-19	280	68.39	0	0.00		
06-May-19	280	68.39	0	0.00		
07-May-19	296	72.23	0	0.00		
08-May-19	294	71.62	0	0.00		
09-May-19	298	72.61	0	0.00		
10-May-19	306	74.62	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	298	72.73	0	0.00		
13-May-19	294	71.81	0	0.00		
14-May-19	301	73.50	0	0.00		
15-May-19	0	0.00	0	0.00		
16-May-19	295	71.98	0	0.00		
17-May-19	297	72.39	0	0.00		
18-May-19	289	70.50	0	0.00		
19-May-19	0	0.00	0	0.00		
20-May-19	307	74.93	0	0.00		
21-May-19	291	70.90	0	0.00		
22-May-19	0	0.00	0	0.00		
23-May-19	292	71.13	0	0.00		
24-May-19	284	69.17	0	0.00		
25-May-19	290	70.78	0	0.00		
26-May-19	0	0.00	0	0.00		
27-May-19	289	70.43	0	0.00		
28-May-19	288	70.16	0	0.00		
29-May-19	0	0.00	0	0.00		
30-May-19	284	69.31	0	0.00		
31-May-19	282	68.82	0	0.00	1.59	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	280	68.25	0	0.00		
03-Jun-19	282	68.76	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	284	69.26	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	276	67.21	0	0.00		
08-Jun-19	274	66.87	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	288	70.25	0	0.00		
11-Jun-19	82	20.05	0	0.00		
12-Jun-19	285	69.39	84	20.58		
13-Jun-19	299	72.99	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	293	71.57	0	0.00		
16-Jun-19	291	70.99	0	0.00		
17-Jun-19	0	0.00	0	0.00		
18-Jun-19	295	71.92	0	0.00		
19-Jun-19	0	0.00	0	0.00		
20-Jun-19	301	73.37	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	302	73.70	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	373	90.89	0	0.00		
25-Jun-19	0	0.00	0	0.00		
26-Jun-19	296	72.25	0	0.00		
27-Jun-19	286	69.87	0	0.00		
28-Jun-19	0	0.00	0	0.00		
29-Jun-19	294	71.65	0	0.00		
30-Jun-19	0	0.00	0	0.00	0.69	
01-Jul-19	293	71.41	0	0.00		
02-Jul-19	287	70.02	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	0	0.00	0	0.00		
05-Jul-19	582	142.03	0	0.00		
06-Jul-19	0	0.00	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	299	73.04	0	0.00		
09-Jul-19	294	71.71	0	0.00		
10-Jul-19	0	0.00	0	0.00		
11-Jul-19	300	73.07	0	0.00		
12-Jul-19	0	0.00	0	0.00		
13-Jul-19	304	74.18	0	0.00		
14-Jul-19	0	0.00	0	0.00		
15-Jul-19	312	76.05	0	0.00		
16-Jul-19	0	0.00	0	0.00		
17-Jul-19	325	79.22	0	0.00		
18-Jul-19	0	0.00	0	0.00		
19-Jul-19	332	80.99	0	0.00		
20-Jul-19	0	0.00	0	0.00		
21-Jul-19	338	82.38	0	0.00		
22-Jul-19	0	0.00	0	0.00		
23-Jul-19	332	80.90	0	0.00		
24-Jul-19	0	0.00	0	0.00		
25-Jul-19	340	82.87	0	0.00		
26-Jul-19	0	0.00	0	0.00		
27-Jul-19	345	84.05	0	0.00		
28-Jul-19	0	0.00	0	0.00		
29-Jul-19	323	78.81	0	0.00		
30-Jul-19	0	0.00	0	0.00		
31-Jul-19	331	80.62	0	0.00	0.00	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	335	81.67	0	0.00		
03-Aug-19	0	0.00	0	0.00		
04-Aug-19	342	83.31	0	0.00		
05-Aug-19	0	0.00	0	0.00		
06-Aug-19	71	17.20	0	0.00		
07-Aug-19	296	72.31	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	363	88.49	0	0.00		
10-Aug-19	0	0.00	0	0.00		
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	0	0.00	0	0.00		

PHASE 10B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
13-Aug-19	680	165.85	0	0.00		
14-Aug-19	0	0.00	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	0	0.00	0	0.00		
17-Aug-19	0	0.00	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	0	0.00	0	0.00		
21-Aug-19	0	0.00	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	0	0.00	0	0.00		
24-Aug-19	283	69.02	0	0.00		
25-Aug-19	0	0.00	0	0.00		
26-Aug-19	282	68.78	0	0.00		
27-Aug-19	0	0.00	26	6.32		
28-Aug-19	285	69.51	186	45.37		
29-Aug-19	0	0.00	0	0.00		
30-Aug-19	0	0.00	0	0.00		
31-Aug-19	0	0.00	0	0.00	1.67	
01-Sep-19	312	76.07	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	295	72.02	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	0	0.00	0	0.00		
06-Sep-19	297	72.37	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	371	90.46	0	0.00		
11-Sep-19	291	70.88	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	291	70.90	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	303	73.95	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	294	71.81	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	299	72.83	0	0.00		
20-Sep-19	0	0.00	0	0.00		
21-Sep-19	292	71.31	0	0.00		
22-Sep-19	0	0.00	0	0.00		
23-Sep-19	298	72.59	0	0.00		
24-Sep-19	0	0.00	0	0.00		
25-Sep-19	302	73.58	0	0.00		
26-Sep-19	0	0.00	0	0.00		
27-Sep-19	298	72.68	0	0.00		
28-Sep-19	0	0.00	0	0.00		
29-Sep-19	295	71.95	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	304	74.07	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	303	73.96	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	306	74.65	0	0.00		
06-Oct-19	0	0.00	0	0.00		
07-Oct-19	299	72.95	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	302	73.69	0	0.00		
10-Oct-19	0	0.00	0	0.00		
11-Oct-19	300	73.15	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	301	73.34	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	297	72.45	0	0.00		
16-Oct-19	0	0.00	0	0.00		
17-Oct-19	343	83.64	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	301	73.43	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	295	71.99	0	0.00		
22-Oct-19	0	0.00	0	0.00		
23-Oct-19	300	73.10	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	303	73.93	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	311	75.76	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	310	75.51	0	0.00		
30-Oct-19	0	0.00	0	0.00		
31-Oct-19	316	77.08	0	0.00	0.00	
01-Nov-19	0	0.00	0	0.00		
02-Nov-19	313	76.28	0	0.00		
03-Nov-19	0	0.00	0	0.00		
04-Nov-19	311	75.95	0	0.00		
05-Nov-19	0	0.00	0	0.00		
06-Nov-19	0	0.00	0	0.00		
07-Nov-19	319	77.69	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	309	75.41	0	0.00		
10-Nov-19	0	0.00	208	50.73		
11-Nov-19	299	72.81	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	307	74.97	0	0.00		
14-Nov-19	0	0.00	0	0.00		
15-Nov-19	730	177.94	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	0	0.00	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	597	145.70	0	0.00		
20-Nov-19	0	0.00	0	0.00		
21-Nov-19	879	214.44	0	0.00		
22-Nov-19	0	0.00	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	0	0.00	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	0	0.00	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	885	215.77	0	0.00		
30-Nov-19	0	0.00	0	0.00	1.69	
01-Dec-19	0	0.00	0	0.00		
02-Dec-19	0	0.00	0	0.00		

PHASE 10B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	882	215.11	0	0.00		
06-Dec-19	0	0.00	373	90.93		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	0	0.00	0	0.00		
09-Dec-19	0	0.00	0	0.00		
10-Dec-19	879	214.48	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	0	0.00	0	0.00		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	0	0.00	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	884	215.63	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	0	0.00	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	909	221.66	0	0.00		
23-Dec-19	0	0.00	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	884	215.60	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	0	0.00	0	0.00	2.93	

PHASE 11A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1080	177.05	0	0.00		
02-Jan-19	590	96.72	0	0.00		
03-Jan-19	1020	167.21	0	0.00		
04-Jan-19	1130	185.25	0	0.00		
05-Jan-19	1130	185.25	0	0.00		
06-Jan-19	580	95.08	0	0.00		
07-Jan-19	1340	219.67	0	0.00		
08-Jan-19	1940	318.03	0	0.00		
09-Jan-19	760	124.59	0	0.00		
10-Jan-19	550	90.16	0	0.00		
11-Jan-19	680	111.48	0	0.00		
12-Jan-19	1260	206.56	0	0.00		
13-Jan-19	1240	203.28	129	21.10		
14-Jan-19	1100	180.33	0	0.00		
15-Jan-19	1100	180.33	0	0.00		
16-Jan-19	1030	168.85	0	0.00		
17-Jan-19	630	103.28	0	0.00		
18-Jan-19	1120	183.61	0	0.00		
19-Jan-19	1240	203.28	0	0.00		
20-Jan-19	1550	254.10	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	660	108.20	0	0.00		
23-Jan-19	1820	298.36	0	0.00		
24-Jan-19	1350	221.31	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	1380	226.23	0	0.00		
27-Jan-19	1240	203.28	0	0.00		
28-Jan-19	610	100.00	0	0.00		
29-Jan-19	2130	349.18	0	0.00		
30-Jan-19	720	118.03	0	0.00		
31-Jan-19	630	103.28	0	0.00	0.68	
01-Feb-19	610	100.00	0	0.00		
02-Feb-19	1640	268.85	0	0.00		
03-Feb-19	620	101.64	0	0.00		
04-Feb-19	1680	275.41	128	20.96		
05-Feb-19	720	118.03	0	0.00		
06-Feb-19	660	108.20	0	0.00		
07-Feb-19	820	134.43	0	0.00		
08-Feb-19	0	0.00	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	0	0.00	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	0	0.00	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	0	0.00	0	0.00		
20-Feb-19	8780	1439.34	125	20.54		
21-Feb-19	1750	286.89	0	0.00		
22-Feb-19	1360	222.95	0	0.00		
23-Feb-19	1840	301.64	0	0.00		
24-Feb-19	2590	424.59	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	1360	222.95	0	0.00		
27-Feb-19	1270	208.20	0	0.00		
28-Feb-19	570	93.44	0	0.00	1.43	
01-Mar-19	1870	306.56	0	0.00		
02-Mar-19	1100	180.33	0	0.00		
03-Mar-19	1190	195.08	0	0.00		
04-Mar-19	1010	165.57	0	0.00		
05-Mar-19	620	101.64	0	0.00		
06-Mar-19	610	100.00	0	0.00		
07-Mar-19	1300	213.11	0	0.00		
08-Mar-19	1220	200.00	0	0.00		
09-Mar-19	680	111.48	0	0.00		
10-Mar-19	2090	342.62	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	650	106.56	118	19.28		
13-Mar-19	1300	213.11	0	0.00		
14-Mar-19	1170	191.80	0	0.00		
15-Mar-19	940	154.10	0	0.00		
16-Mar-19	530	86.89	0	0.00		
17-Mar-19	1350	221.31	0	0.00		
18-Mar-19	630	103.28	0	0.00		
19-Mar-19	1270	208.20	0	0.00		
20-Mar-19	1160	190.16	0	0.00		
21-Mar-19	1140	186.89	0	0.00		
22-Mar-19	1670	273.77	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	1320	216.39	0	0.00		
25-Mar-19	640	104.92	0	0.00		
26-Mar-19	680	111.48	0	0.00		
27-Mar-19	1330	218.03	0	0.00		
28-Mar-19	1160	190.16	0	0.00		
29-Mar-19	1100	180.33	0	0.00		
30-Mar-19	1190	195.08	0	0.00		
31-Mar-19	980	160.66	104	17.06	1.17	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	1950	319.67	0	0.00		
03-Apr-19	1360	222.95	0	0.00		
04-Apr-19	160	26.23	0	0.00		
05-Apr-19	1220	200.00	0	0.00		
06-Apr-19	530	86.89	0	0.00		
07-Apr-19	1170	191.80	0	0.00		
08-Apr-19	1360	222.95	0	0.00		
09-Apr-19	530	86.89	0	0.00		
10-Apr-19	580	95.08	0	0.00		
11-Apr-19	640	104.92	116	19.00		
12-Apr-19	1220	200.00	0	0.00		
13-Apr-19	1020	167.21	0	0.00		
14-Apr-19	1170	191.80	0	0.00		
15-Apr-19	1240	203.28	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	660	108.20	0	0.00		
18-Apr-19	1740	285.25	0	0.00		
19-Apr-19	1281	210.00	0	0.00		
20-Apr-19	600	98.36	0	0.00		
21-Apr-19	590	96.72	118	19.35		

PHASE 11A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	1260	206.56	0	0.00		
23-Apr-19	1170	191.80	0	0.00		
24-Apr-19	1070	175.41	0	0.00		
25-Apr-19	630	103.28	0	0.00		
26-Apr-19	1700	278.69	0	0.00		
27-Apr-19	810	132.79	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	1300	213.11	113	18.48		
30-Apr-19	1120	183.61	0	0.00	1.89	
01-May-19	1040	170.49	0	0.00		
02-May-19	560	91.80	0	0.00		
03-May-19	1040	170.49	0	0.00		
04-May-19	980	160.66	0	0.00		
05-May-19	530	86.89	116	19.01		
06-May-19	580	95.08	0	0.00		
07-May-19	1100	180.33	0	0.00		
08-May-19	560	91.80	0	0.00		
09-May-19	1120	183.61	0	0.00		
10-May-19	1170	191.80	0	0.00		
11-May-19	320	52.46	0	0.00		
12-May-19	1060	173.77	0	0.00		
13-May-19	570	93.44	0	0.00		
14-May-19	1040	170.49	0	0.00		
15-May-19	1040	170.49	0	0.00		
16-May-19	560	91.80	126	20.70		
17-May-19	1040	170.49	0	0.00		
18-May-19	630	103.28	0	0.00		
19-May-19	1100	180.33	0	0.00		
20-May-19	990	162.30	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	1230	201.64	0	0.00		
23-May-19	1500	245.90	0	0.00		
24-May-19	430	70.49	0	0.00		
25-May-19	1060	173.77	126	20.58		
26-May-19	450	73.77	0	0.00		
27-May-19	550	90.16	0	0.00		
28-May-19	1050	172.13	0	0.00		
29-May-19	530	86.89	0	0.00		
30-May-19	1080	177.05	485	79.47		
31-May-19	510	83.61	0	0.00	4.51	
01-Jun-19	1130	185.25	0	0.00		
02-Jun-19	540	88.52	0	0.00		
03-Jun-19	550	90.16	0	0.00		
04-Jun-19	1150	188.52	0	0.00		
05-Jun-19	540	88.52	0	0.00		
06-Jun-19	540	88.52	0	0.00		
07-Jun-19	1190	195.08	0	0.00		
08-Jun-19	0	0.00	0	0.00		
09-Jun-19	1260	206.56	0	0.00		
10-Jun-19	1110	181.97	0	0.00		
11-Jun-19	530	86.89	0	0.00		
12-Jun-19	610	100.00	69	11.26		
13-Jun-19	1550	254.10	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	1140	186.89	0	0.00		
16-Jun-19	560	91.80	0	0.00		
17-Jun-19	550	90.16	0	0.00		
18-Jun-19	1100	180.33	0	0.00		
19-Jun-19	540	88.52	0	0.00		
20-Jun-19	1470	240.98	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	1130	185.25	0	0.00		
23-Jun-19	990	162.30	0	0.00		
24-Jun-19	510	83.61	0	0.00		
25-Jun-19	530	86.89	0	0.00		
26-Jun-19	590	96.72	0	0.00		
27-Jun-19	610	100.00	0	0.00		
28-Jun-19	1100	180.33	0	0.00		
29-Jun-19	1040	170.49	0	0.00		
30-Jun-19	530	86.89	0	0.00	0.38	
01-Jul-19	570	93.44	0	0.00		
02-Jul-19	1110	181.97	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	1210	198.36	0	0.00		
05-Jul-19	1050	172.13	0	0.00		
06-Jul-19	490	80.33	0	0.00		
07-Jul-19	570	93.44	0	0.00		
08-Jul-19	590	96.72	0	0.00		
09-Jul-19	590	96.72	0	0.00		
10-Jul-19	1130	185.25	0	0.00		
11-Jul-19	1060	173.77	0	0.00		
12-Jul-19	530	86.89	0	0.00		
13-Jul-19	540	88.52	0	0.00		
14-Jul-19	520	85.25	0	0.00		
15-Jul-19	1040	170.49	0	0.00		
16-Jul-19	970	159.02	0	0.00		
17-Jul-19	490	80.33	0	0.00		
18-Jul-19	510	83.61	0	0.00		
19-Jul-19	1310	214.75	0	0.00		
20-Jul-19	460	75.41	119	19.56		
21-Jul-19	510	83.61	0	0.00		
22-Jul-19	490	80.33	0	0.00		
23-Jul-19	960	157.38	0	0.00		
24-Jul-19	490	80.33	0	0.00		
25-Jul-19	560	91.80	0	0.00		
26-Jul-19	610	100.00	0	0.00		
27-Jul-19	990	162.30	0	0.00		
28-Jul-19	910	149.18	0	0.00		
29-Jul-19	620	101.64	0	0.00		
30-Jul-19	510	83.61	0	0.00		
31-Jul-19	500	81.97	0	0.00	0.63	
01-Aug-19	560	91.80	0	0.00		
02-Aug-19	1060	173.77	0	0.00		
03-Aug-19	1000	163.93	0	0.00		
04-Aug-19	480	78.69	0	0.00		
05-Aug-19	530	86.89	0	0.00		
06-Aug-19	540	88.52	120	19.75		
07-Aug-19	1050	172.13	0	0.00		
08-Aug-19	480	78.69	0	0.00		
09-Aug-19	0	0.00	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 11A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	1690	277.05	0	0.00		
13-Aug-19	580	95.08	0	0.00		
14-Aug-19	590	96.72	0	0.00		
15-Aug-19	610	100.00	0	0.00		
16-Aug-19	610	100.00	0	0.00		
17-Aug-19	610	100.00	0	0.00		
18-Aug-19	580	95.08	0	0.00		
19-Aug-19	1150	188.52	0	0.00		
20-Aug-19	590	96.72	0	0.00		
21-Aug-19	1060	173.77	0	0.00		
22-Aug-19	510	83.61	0	0.00		
23-Aug-19	0	0.00	0	0.00		Air Volume Control Malfunction
24-Aug-19	670	109.84	0	0.00		"
25-Aug-19	660	108.20	0	0.00		"
26-Aug-19	1170	191.80	0	0.00		"
27-Aug-19	640	104.92	120	19.69		"
28-Aug-19	570	93.44	0	0.00		"
29-Aug-19	560	91.80	0	0.00		"
30-Aug-19	610	100.00	0	0.00		"
31-Aug-19	0	0.00	0	0.00	1.27	"
01-Sep-19	1310	214.75	0	0.00		"
02-Sep-19	1110	181.97	0	0.00		"
03-Sep-19	570	93.44	0	0.00		"
04-Sep-19	1060	173.77	0	0.00		"
05-Sep-19	0	0.00	127	20.78		"
06-Sep-19	610	100.00	129	21.13		"
07-Sep-19	1020	167.21	0	0.00		"
08-Sep-19	0	0.00	0	0.00		"
09-Sep-19	0	0.00	0	0.00		"
10-Sep-19	0	0.00	0	0.00		"
09-Sep-19	0	0.00	0	0.00		"
10-Sep-19	0	0.00	0	0.00		"
11-Sep-19	0	0.00	0	0.00		"
12-Sep-19	0	0.00	0	0.00		"
13-Sep-19	1290	211.48	0	0.00		"
14-Sep-19	0	0.00	0	0.00		Air Volume Control Malfunction
15-Sep-19	0	0.00	0	0.00		"
16-Sep-19	0	0.00	0	0.00		"
17-Sep-19	570	93.44	0	0.00		"
18-Sep-19	0	0.00	0	0.00		"
19-Sep-19	580	95.08	0	0.00		"
20-Sep-19	1040	170.49	0	0.00		"
21-Sep-19	0	0.00	0	0.00		"
22-Sep-19	1130	185.25	0	0.00		"
23-Sep-19	1040	170.49	0	0.00		"
24-Sep-19	490	80.33	0	0.00		"
25-Sep-19	550	90.16	0	0.00		"
26-Sep-19	560	91.80	0	0.00		"
27-Sep-19	640	104.92	0	0.00		
28-Sep-19	600	98.36	0	0.00		
29-Sep-19	640	104.92	0	0.00		
30-Sep-19	1170	191.80	0	0.00	1.40	
01-Oct-19	1030	168.85	0	0.00		
02-Oct-19	460	75.41	0	0.00		
03-Oct-19	560	91.80	0	0.00		
04-Oct-19	530	86.89	0	0.00		
05-Oct-19	580	95.08	0	0.00		
06-Oct-19	1080	177.05	0	0.00		
07-Oct-19	510	83.61	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	0	0.00	0	0.00		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	3800	622.95	0	0.00		
16-Oct-19	1600	262.30	0	0.00		
17-Oct-19	1140	186.89	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	750	122.95	0	0.00		
20-Oct-19	570	93.44	0	0.00		
21-Oct-19	570	93.44	0	0.00		
22-Oct-19	1540	252.46	0	0.00		
21-Oct-19	570	93.44	0	0.00		
22-Oct-19	1540	252.46	0	0.00		
23-Oct-19	450	73.77	0	0.00		
24-Oct-19	500	81.97	0	0.00		
25-Oct-19	1030	168.85	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	1510	247.54	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	1080	177.05	0	0.00		
30-Oct-19	990	162.30	0	0.00		
31-Oct-19	1320	216.39	0	0.00	0.00	
01-Nov-19	720	118.03	0	0.00		
02-Nov-19	490	80.33	0	0.00		
03-Nov-19	460	75.41	0	0.00		
04-Nov-19	540	88.52	21	3.44		
05-Nov-19	1410	231.15	0	0.00		
06-Nov-19	0	0.00	0	0.00		
07-Nov-19	950	155.74	0	0.00		
08-Nov-19	450	73.77	0	0.00		
09-Nov-19	1000	163.93	0	0.00		
10-Nov-19	460	75.41	0	0.00		
11-Nov-19	510	83.61	0	0.00		
12-Nov-19	900	147.54	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	1050	172.13	0	0.00		
15-Nov-19	910	149.18	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	1010	165.57	0	0.00		
18-Nov-19	1350	221.31	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	520	85.25	0	0.00		
21-Nov-19	1040	170.49	0	0.00		
22-Nov-19	900	147.54	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	1450	237.70	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	600	98.36	0	0.00		
27-Nov-19	1980	324.59	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	490	80.33	0	0.00		

PHASE 11A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	930	152.46	0	0.00	0.11	
01-Dec-19	480	78.69	0	0.00		
02-Dec-19	940	154.10	0	0.00		
03-Dec-19	870	142.62	0	0.00		
04-Dec-19	480	78.69	0	0.00		
05-Dec-19	0	0.00	0	0.00		
06-Dec-19	1070	175.41	128	20.98		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	1570	257.38	0	0.00		
09-Dec-19	1240	203.28	0	0.04		
10-Dec-19	270	44.26	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	640	104.92	0	0.00		
13-Dec-19	1450	237.70	0	0.00		
14-Dec-19	1500	245.90	127	20.78		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	0	0.00	0	0.00		
17-Dec-19	1850	303.28	0	0.00		
18-Dec-19	420	68.85	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	1450	237.70	0	0.00		
22-Dec-19	800	131.15	0	0.00		
23-Dec-19	410	67.21	0	0.00		
24-Dec-19	0	0.00	119	19.44		
25-Dec-19	520	85.25	0	0.00		
26-Dec-19	550	90.16	0	0.00		
27-Dec-19	1400	229.51	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	540	88.52	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	0	0.00	0	0.00	1.98	

PHASE 11B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1160	190.16	0	0.00		
02-Jan-19	630	103.28	0	0.00		
03-Jan-19	1250	204.92	0	0.00		
04-Jan-19	1280	209.84	0	0.00		
05-Jan-19	1280	209.84	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	1970	322.95	0	0.00		
08-Jan-19	1840	301.64	0	0.00		
09-Jan-19	1230	201.64	0	0.00		
10-Jan-19	420	68.85	0	0.00		
11-Jan-19	580	95.08	0	0.00		
12-Jan-19	1840	301.64	0	0.00		
13-Jan-19	860	140.98	0	0.00		
14-Jan-19	1860	304.92	0	0.00		
15-Jan-19	1270	208.20	0	0.00		
16-Jan-19	620	101.64	0	0.00		
17-Jan-19	1280	209.84	0	0.00		
18-Jan-19	1290	211.48	0	0.00		
19-Jan-19	1250	204.92	0	0.00		
20-Jan-19	1910	313.11	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	1230	201.64	0	0.00		
23-Jan-19	1910	313.11	0	0.00		
24-Jan-19	1200	196.72	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	1180	193.44	0	0.00		
27-Jan-19	1400	229.51	0	0.00		
28-Jan-19	1220	200.00	0	0.00		
29-Jan-19	1820	298.36	0	0.00		
30-Jan-19	1220	200.00	0	0.00		
31-Jan-19	630	103.28	0	0.00	0.00	
01-Feb-19	1260	206.56	0	0.00		
02-Feb-19	1790	293.44	0	0.00		
03-Feb-19	620	101.64	0	0.00		
04-Feb-19	1270	208.20	0	0.00		
05-Feb-19	600	98.36	0	0.00		
06-Feb-19	1230	201.64	0	0.00		
07-Feb-19	1180	193.44	0	0.00		
08-Feb-19	1130	185.25	0	0.00		
09-Feb-19	610	100.00	0	0.00		
10-Feb-19	1390	227.87	0	0.00		
11-Feb-19	620	101.64	0	0.00		
12-Feb-19	1990	326.23	0	0.00		
13-Feb-19	1370	224.59	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	2050	336.07	0	0.00		
16-Feb-19	740	121.31	0	0.00		
17-Feb-19	660	108.20	0	0.00		
18-Feb-19	740	121.31	0	0.00		
19-Feb-19	1370	224.59	0	0.00		
20-Feb-19	1380	226.23	0	0.00		
21-Feb-19	650	106.56	0	0.00		
22-Feb-19	710	116.39	0	0.00		
23-Feb-19	1460	239.34	0	0.00		
24-Feb-19	2600	426.23	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	2000	327.87	0	0.00		
28-Feb-19	650	106.56	0	0.00	0.00	
01-Mar-19	1330	218.03	0	0.00		
02-Mar-19	670	109.84	0	0.00		
03-Mar-19	1360	222.95	0	0.00		
04-Mar-19	1410	231.15	0	0.00		
05-Mar-19	640	104.92	228	37.38		
06-Mar-19	610	100.00	0	0.00		
07-Mar-19	630	103.28	0	0.00		
08-Mar-19	1900	311.48	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	2580	422.95	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	680	111.48	0	0.00		
13-Mar-19	1340	219.67	0	0.00		
14-Mar-19	1290	211.48	0	0.00		
15-Mar-19	1220	200.00	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	1250	204.92	0	0.00		
18-Mar-19	1390	227.87	0	0.00		
19-Mar-19	760	124.59	0	0.00		
20-Mar-19	1410	231.15	2040	334.43		
21-Mar-19	640	104.92	0	0.00		
22-Mar-19	1950	319.67	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	660	108.20	0	0.00		
25-Mar-19	1310	214.75	0	0.00		
26-Mar-19	660	108.20	0	0.00		
27-Mar-19	1330	218.03	0	0.00		
28-Mar-19	1300	213.11	0	0.00		
29-Mar-19	630	103.28	0	0.00		
30-Mar-19	1300	213.11	0	0.00		
31-Mar-19	1300	213.11	0	0.00	11.99	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	1270	208.20	0	0.00		
03-Apr-19	1960	321.31	0	0.00		
04-Apr-19	0	0.00	0	0.00		
05-Apr-19	1300	213.11	0	0.00		
06-Apr-19	670	109.84	0	0.00		
07-Apr-19	1270	208.20	0	0.00		
08-Apr-19	1310	214.75	0	0.00		
09-Apr-19	660	108.20	0	0.00		
10-Apr-19	660	108.20	0	0.00		
11-Apr-19	620	101.64	0	0.00		
12-Apr-19	1240	203.28	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	690	113.11	0	0.00		
15-Apr-19	2010	329.51	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	690	113.11	0	0.00		
18-Apr-19	1270	208.20	0	0.00		
19-Apr-19	1280	209.84	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	1240	203.28	0	0.00		

PHASE 11B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	1330	218.03	0	0.00		
23-Apr-19	610	100.00	0	0.00		
24-Apr-19	610	100.00	0	0.00		
25-Apr-19	1310	214.75	0	0.00		
26-Apr-19	1230	201.64	0	0.00		
27-Apr-19	1220	200.00	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	630	103.28	0	0.00		
30-Apr-19	1210	198.36	0	0.00	0.00	
01-May-19	1290	211.48	0	0.00		
02-May-19	600	98.36	0	0.00		
03-May-19	1200	196.72	0	0.00		
04-May-19	1200	196.72	0	0.00		
05-May-19	640	104.92	0	0.00		
06-May-19	580	95.08	0	0.00		
07-May-19	1220	200.00	0	0.00		
08-May-19	630	103.28	0	0.00		
09-May-19	1310	214.75	0	0.00		
10-May-19	0	0.00	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	0	0.00	0	0.00		
13-May-19	0	0.00	0	0.00		
14-May-19	0	0.00	0	0.00		
15-May-19	3290	539.34	0	0.00		
16-May-19	1820	298.36	0	0.00		
17-May-19	1180	193.44	0	0.00		
18-May-19	580	95.08	0	0.00		
19-May-19	1670	273.77	0	0.00		
20-May-19	1140	186.89	0	0.00		
21-May-19	590	96.72	0	0.00		
22-May-19	650	106.56	160	26.23		
23-May-19	1830	300.00	0	0.00		
24-May-19	570	93.44	0	0.00		
25-May-19	1280	209.84	0	0.00		
26-May-19	1220	200.00	0	0.00		
27-May-19	710	116.39	0	0.00		
28-May-19	630	103.28	0	0.00		
29-May-19	610	100.00	0	0.00		
30-May-19	1140	186.89	0	0.00		
31-May-19	620	101.64	0	0.00	0.85	
01-Jun-19	600	98.36	0	0.00		
02-Jun-19	1190	195.08	0	0.00		
03-Jun-19	610	100.00	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	0	0.00	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	0	0.00	0	0.00		
08-Jun-19	0	0.00	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	0	0.00	0	0.00		
11-Jun-19	2050	336.07	0	0.00		
12-Jun-19	1110	181.97	0	0.00		
13-Jun-19	0	0.00	0	0.00		
14-Jun-19	2510	411.48	0	0.00		
15-Jun-19	1090	178.69	0	0.00		
16-Jun-19	0	0.00	0	0.00		
17-Jun-19	0	0.00	0	0.00		
18-Jun-19	0	0.00	0	0.00		
19-Jun-19	0	0.00	0	0.00		
20-Jun-19	3840	629.51	0	0.00		
21-Jun-19	3530	578.69	0	0.00		
22-Jun-19	1310	214.75	0	0.00		
23-Jun-19	1940	318.03	0	0.00		
24-Jun-19	710	116.39	0	0.00		
25-Jun-19	630	103.28	0	0.00		
26-Jun-19	1150	188.52	0	0.00		
27-Jun-19	620	101.64	0	0.00		
28-Jun-19	1110	181.97	0	0.00		
29-Jun-19	1260	206.56	0	0.00		
30-Jun-19	660	108.20	0	0.00	0.00	
01-Jul-19	640	104.92	0	0.00		
02-Jul-19	1290	211.48	0	0.00		
03-Jul-19	730	119.67	0	0.00		
04-Jul-19	720	118.03	0	0.00		
05-Jul-19	780	127.87	0	0.00		
06-Jul-19	1290	211.48	0	0.00		
07-Jul-19	700	114.75	0	0.00		
08-Jul-19	700	114.75	0	0.00		
09-Jul-19	670	109.84	0	0.00		
10-Jul-19	630	103.28	0	0.00		
11-Jul-19	1290	211.48	0	0.00		
12-Jul-19	740	121.31	0	0.00		
13-Jul-19	740	121.31	0	0.00		
14-Jul-19	1400	229.51	0	0.00		
15-Jul-19	710	116.39	0	0.00		
16-Jul-19	710	116.39	0	0.00		
17-Jul-19	1280	209.84	0	0.00		
18-Jul-19	0	0.00	0	0.00		
19-Jul-19	1340	219.67	0	0.00		
20-Jul-19	740	121.31	0	0.00		
21-Jul-19	830	136.07	0	0.00		
22-Jul-19	710	116.39	0	0.00		
23-Jul-19	700	114.75	122	20.00		
24-Jul-19	730	119.67	0	0.00		
25-Jul-19	750	122.95	0	0.00		
26-Jul-19	750	122.95	0	0.00		
27-Jul-19	710	116.39	0	0.00		
28-Jul-19	1330	218.03	0	0.00		
29-Jul-19	770	126.23	0	0.00		
30-Jul-19	690	113.11	0	0.00		
31-Jul-19	720	118.03	0	0.00	0.65	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	1390	227.87	0	0.00		
03-Aug-19	690	113.11	0	0.00		
04-Aug-19	710	116.39	0	0.00		
05-Aug-19	720	118.03	0	0.00		
06-Aug-19	710	116.39	0	0.00		
07-Aug-19	660	108.20	0	0.00		
08-Aug-19	1170	191.80	0	0.00		
09-Aug-19	0	0.00	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 11B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	1610	263.93	0	0.00		
13-Aug-19	610	100.00	0	0.00		
14-Aug-19	650	106.56	0	0.00		
15-Aug-19	1310	214.75	0	0.00		
16-Aug-19	620	101.64	0	0.00		
17-Aug-19	590	96.72	0	0.00		
18-Aug-19	600	98.36	0	0.00		
19-Aug-19	1250	204.92	0	0.00		
20-Aug-19	710	116.39	0	0.00		
21-Aug-19	610	100.00	0	0.00		
22-Aug-19	1240	203.28	0	0.00		
23-Aug-19	0	0.00	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	1270	208.20	0	0.00		
26-Aug-19	1270	208.20	0	0.00		
27-Aug-19	710	116.39	0	0.00		
28-Aug-19	620	101.64	0	0.00		
29-Aug-19	1240	203.28	0	0.00		
30-Aug-19	670	109.84	0	0.00		
31-Aug-19	0	0.00	180	29.51	0.95	
01-Sep-19	660	108.20	0	0.00		
02-Sep-19	1210	198.36	0	0.00		
03-Sep-19	700	114.75	0	0.00		
04-Sep-19	580	95.08	0	0.00		
05-Sep-19	660	108.20	0	0.00		
06-Sep-19	620	101.64	0	0.00		
07-Sep-19	810	132.79	0	0.00		
08-Sep-19	610	100.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	0	0.00	0	0.00		
11-Sep-19	0	0.00	0	0.00		
12-Sep-19	630	103.28	0	0.00		
13-Sep-19	650	106.56	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	620	101.64	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	620	101.64	0	0.00		
20-Sep-19	1240	203.28	0	0.00		
21-Sep-19	700	114.75	0	0.00		
22-Sep-19	620	101.64	0	0.00		
23-Sep-19	1210	198.36	0	0.00		
24-Sep-19	660	108.20	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	1220	200.00	0	0.00		
27-Sep-19	0	0.00	0	0.00		
28-Sep-19	1210	198.36	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	1210	198.36	0	0.00	0.00	
01-Oct-19	1130	185.25	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	1160	190.16	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	1240	203.28	0	0.00		
06-Oct-19	580	95.08	0	0.00		
07-Oct-19	550	90.16	0	0.00		
08-Oct-19	590	96.72	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	0	0.00	0	0.00		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	2980	488.52	0	0.00		
16-Oct-19	2250	368.85	0	0.00		
17-Oct-19	2050	336.07	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	780	127.87	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	1260	206.56	0	0.00		
22-Oct-19	590	96.72	0	0.00		
23-Oct-19	1160	190.16	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	590	96.72	0	0.00		
26-Oct-19	580	95.08	0	0.00		
27-Oct-19	1150	188.52	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	1160	190.16	0	0.00		
30-Oct-19	1180	193.44	0	0.00		
31-Oct-19	1150	188.52	0	0.00	0.00	
01-Nov-19	560	91.80	188	30.82		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	560	91.80	0	0.00		
04-Nov-19	770	126.23	0	0.00		
05-Nov-19	2100	344.26	0	0.00		
06-Nov-19	740	121.31	0	0.00		
07-Nov-19	690	113.11	0	0.00		
08-Nov-19	720	118.03	0	0.00		
09-Nov-19	760	124.59	0	0.00		
10-Nov-19	640	104.92	0	0.00		
11-Nov-19	770	126.23	0	0.00		
12-Nov-19	660	108.20	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	1500	245.90	0	0.00		
15-Nov-19	650	106.56	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	690	113.11	0	0.00		
18-Nov-19	1300	213.11	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	660	108.20	0	0.00		
21-Nov-19	650	106.56	0	0.00		
22-Nov-19	1290	211.48	0	0.00		
23-Nov-19	700	114.75	0	0.00		
24-Nov-19	1280	209.84	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	1860	304.92	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	640	104.92	0	0.00		

PHASE 11B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	650	106.56	0	0.00	1.03	
01-Dec-19	640	104.92	0	0.00		
02-Dec-19	1280	209.84	0	0.00		
03-Dec-19	650	106.56	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	630	103.28	0	0.00		
06-Dec-19	560	91.80	0	0.00		
07-Dec-19	590	96.72	0	0.00		
08-Dec-19	1140	186.89	0	0.00		
09-Dec-19	1170	191.80	0	0.00		
10-Dec-19	650	106.56	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	660	108.20	0	0.00		
13-Dec-19	1280	209.84	0	0.00		
14-Dec-19	1590	260.66	0	0.00		
15-Dec-19	450	73.77	0	0.00		
16-Dec-19	0	0.00	0	0.00		
17-Dec-19	1220	200.00	0	0.00		
18-Dec-19	600	98.36	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	1260	206.56	0	0.00		
22-Dec-19	1170	191.80	0	0.00		
23-Dec-19	610	100.00	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	690	113.11	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	1270	208.20	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	610	100.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	962	157.73	0	0.00	0.00	

PHASE 11C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	1020	167.21	0	0.00		
02-Jan-19	1090	178.69	0	0.00		
03-Jan-19	280	45.90	0	0.00		
04-Jan-19	760	124.59	0	0.00		
05-Jan-19	1060	173.77	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	1150	188.52	0	0.00		
08-Jan-19	1030	168.85	0	0.00		
09-Jan-19	1080	177.05	0	0.00		
10-Jan-19	750	122.95	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	1120	183.61	0	0.00		
13-Jan-19	1080	177.05	0	0.00		
14-Jan-19	0	0.00	0	0.00		
15-Jan-19	1020	167.21	0	0.00		
16-Jan-19	1030	168.85	0	0.00		
17-Jan-19	0	0.00	0	0.00		
18-Jan-19	1040	170.49	0	0.00		
19-Jan-19	1070	175.41	0	0.00		
20-Jan-19	960	157.38	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	1140	186.89	0	0.00		
23-Jan-19	1020	167.21	0	0.00		
24-Jan-19	0	0.00	0	0.00		
25-Jan-19	1170	191.80	0	0.00		
26-Jan-19	0	0.00	0	0.00		
27-Jan-19	1030	168.85	0	0.00		
28-Jan-19	1070	175.41	0	0.00		
29-Jan-19	990	162.30	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	1080	177.05	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	1080	177.05	0	0.00		
03-Feb-19	1060	173.77	0	0.00		
04-Feb-19	1050	172.13	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	1060	173.77	0	0.00		
07-Feb-19	1040	170.49	0	0.00		
08-Feb-19	0	0.00	0	0.00		
09-Feb-19	1190	195.08	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	1080	177.05	0	0.00		
12-Feb-19	1040	170.49	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	1060	173.77	0	0.00		
15-Feb-19	1030	168.85	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	1100	180.33	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	1140	186.89	0	0.00		
20-Feb-19	1050	172.13	0	0.00		
21-Feb-19	0	0.00	0	0.00		
22-Feb-19	1160	190.16	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	2010	329.51	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	1170	191.80	0	0.00		
28-Feb-19	1060	173.77	0	0.00	0.00	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	1060	173.77	0	0.00		Increased secondary flow directly related to snow melt and/or rain. A specific conductance sample collected on 3/15/2004 supports this conclusion. Increased flow reported to MDEP on 3/16/2004. WMDSM to evaluate in the Spring.
03-Mar-19	1060	173.77	0	0.00		" "
04-Mar-19	0	0.00	0	0.00		" "
05-Mar-19	1100	180.33	0	0.00		" "
06-Mar-19	0	0.00	0	0.00		" "
07-Mar-19	1100	180.33	0	0.00		" "
08-Mar-19	1050	172.13	0	0.00		" "
09-Mar-19	0	0.00	0	0.00		" "
10-Mar-19	1040	170.49	0	0.00		" "
11-Mar-19	1070	175.41	0	0.00		" "
12-Mar-19	0	0.00	0	0.00		" "
13-Mar-19	1050	172.13	0	0.00		" "
14-Mar-19	0	0.00	0	0.00		" "
15-Mar-19	5800	950.82	2265	371.30		" "
16-Mar-19	0	0.00	3424	561.34		" "
17-Mar-19	1150	188.52	0	0.00		" "
18-Mar-19	0	0.00	1402	229.88		" "
19-Mar-19	1040	170.49	0	0.00		" "
20-Mar-19	1050	172.13	0	0.00		" "
21-Mar-19	0	0.00	0	0.00		" "
22-Mar-19	1030	168.85	0	0.00		" "
23-Mar-19	1030	168.85	0	0.00		" "
24-Mar-19	0	0.00	0	0.00		" "
25-Mar-19	1060	173.77	0	0.00		" "
26-Mar-19	0	0.00	0	0.00		" "
27-Mar-19	1040	170.49	0	0.00		" "
28-Mar-19	1050	172.13	0	0.00		" "
29-Mar-19	0	0.00	0	0.00		" "
30-Mar-19	1060	173.77	0	0.00		" "
31-Mar-19	1030	168.85	0	0.00	37.50	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	1040	170.49	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	1030	168.85	0	0.00		
05-Apr-19	1050	172.13	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	1030	168.85	0	0.00		
08-Apr-19	800	131.15	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	1020	167.21	0	0.00		
11-Apr-19	0	0.00	0	0.00		
12-Apr-19	1060	173.77	0	0.00		
13-Apr-19	990	162.30	0	0.00		
14-Apr-19	80	13.11	0	0.00		
15-Apr-19	1010	165.57	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	1010	165.57	0	0.00		
18-Apr-19	1020	167.21	0	0.00		

PHASE 11C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	1030	168.85	0	0.00		
21-Apr-19	0	0.00	0	0.00		
22-Apr-19	1030	168.85	0	0.00		
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	1030	168.85	0	0.00		
25-Apr-19	1010	165.57	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	1030	168.85	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	1040	170.49	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.00	
01-May-19	1030	168.85	0	0.00		
02-May-19	1020	167.21	0	0.00		
03-May-19	0	0.00	0	0.00		
04-May-19	1030	168.85	0	0.00		
05-May-19	0	0.00	0	0.00		
06-May-19	1020	167.21	0	0.00		
07-May-19	1020	167.21	0	0.00		
08-May-19	0	0.00	0	0.00		
09-May-19	1010	165.57	0	0.00		
10-May-19	0	0.00	0	0.00		
11-May-19	1030	168.85	0	0.00		
12-May-19	0	0.00	0	0.00		
13-May-19	1030	168.85	0	0.00		
14-May-19	1030	168.85	0	0.00		
15-May-19	0	0.00	0	0.00		
16-May-19	1020	167.21	0	0.00		
17-May-19	0	0.00	0	0.00		
18-May-19	1020	167.21	0	0.00		
19-May-19	0	0.00	0	0.00		
20-May-19	1030	168.85	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	1010	165.57	0	0.00		
23-May-19	1030	168.85	0	0.00		
24-May-19	0	0.00	0	0.00		
25-May-19	1010	165.57	0	0.00		
26-May-19	0	0.00	0	0.00		
27-May-19	1000	163.93	0	0.00		
28-May-19	0	0.00	0	0.00		
29-May-19	1040	170.49	0	0.00		
30-May-19	0	0.00	0	0.00		
31-May-19	1000	163.93	0	0.00	0.00	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	990	162.30	0	0.00		
03-Jun-19	700	114.75	0	0.04		
04-Jun-19	330	54.10	0	0.00		
05-Jun-19	990	162.30	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	960	157.38	0	0.00		
08-Jun-19	0	0.00	0	0.00		
09-Jun-19	1000	163.93	0	0.00		
10-Jun-19	0	0.00	0	0.00		
11-Jun-19	1050	172.13	0	0.00		
12-Jun-19	0	0.00	63	10.26		
13-Jun-19	1020	167.21	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	1000	163.93	0	0.00		
16-Jun-19	0	0.00	0	0.00		
17-Jun-19	1010	165.57	0	0.00		
18-Jun-19	0	0.00	0	0.00		
19-Jun-19	1010	165.57	0	0.00		
20-Jun-19	1010	165.57	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	0	0.00	0	0.00		
23-Jun-19	1010	165.57	0	0.00		
24-Jun-19	990	162.30	0	0.00		
25-Jun-19	0	0.00	0	0.00		
26-Jun-19	0	0.00	0	0.00		
27-Jun-19	1010	165.57	0	0.00		
28-Jun-19	980	160.66	0	0.00		
29-Jun-19	0	0.00	0	0.00		
30-Jun-19	970	159.02	0	0.00	0.34	
01-Jul-19	0	0.00	0	0.00		
02-Jul-19	970	159.02	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	1000	163.93	0	0.00		
05-Jul-19	0	0.00	0	0.00		
06-Jul-19	980	160.66	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	990	162.30	0	0.00		
09-Jul-19	0	0.00	0	0.00		
10-Jul-19	1000	163.93	0	0.00		
11-Jul-19	0	0.00	0	0.00		
12-Jul-19	980	160.66	0	0.00		
13-Jul-19	20	3.28	0	0.00		
14-Jul-19	990	162.30	0	0.00		
15-Jul-19	0	0.00	0	0.00		
16-Jul-19	970	159.02	0	0.00		
17-Jul-19	0	0.00	0	0.00		
18-Jul-19	1000	163.93	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	980	160.66	0	0.00		
21-Jul-19	0	0.00	0	0.00		
22-Jul-19	1000	163.93	0	0.00		
23-Jul-19	0	0.00	0	0.00		
24-Jul-19	1010	165.57	0	0.00		
25-Jul-19	0	0.00	0	0.00		
26-Jul-19	990	162.30	0	0.00		
27-Jul-19	0	0.00	0	0.00		
28-Jul-19	970	159.02	0	0.00		
29-Jul-19	0	0.00	0	0.00		
30-Jul-19	970	159.02	0	0.00		
31-Jul-19	0	0.00	0	0.00	0.00	
01-Aug-19	970	159.02	0	0.00		
02-Aug-19	0	0.00	0	0.00		
03-Aug-19	940	154.10	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	970	159.02	0	0.00		
06-Aug-19	0	0.00	0	0.00		
07-Aug-19	970	159.02	0	0.00		

PHASE 11C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	960	157.38	0	0.00		
10-Aug-19	0	0.00	0	0.00		
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	980	160.66	0	0.00		
13-Aug-19	0	0.00	0	0.00		
14-Aug-19	1000	163.93	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	970	159.02	0	0.00		
17-Aug-19	0	0.00	0	0.00		
18-Aug-19	990	162.30	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	0	0.00	0	0.00		
21-Aug-19	1000	163.93	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	1000	163.93	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	990	162.30	0	0.00		
26-Aug-19	0	0.00	0	0.00		
27-Aug-19	980	160.66	27	4.41		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	970	159.02	0	0.00		
30-Aug-19	0	0.00	0	0.00		
31-Aug-19	0	0.00	0	0.00	0.14	
01-Sep-19	1060	173.77	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	1020	167.21	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	990	162.30	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	970	159.02	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	0	0.00	0	0.00		
11-Sep-19	0	0.00	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	1010	165.57	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	0	0.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	970	159.02	0	0.00		
21-Sep-19	0	0.00	0	0.00		
22-Sep-19	960	157.38	0	0.00		
23-Sep-19	0	0.00	0	0.00		
24-Sep-19	940	154.10	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	0	0.00	0	0.00		
27-Sep-19	1120	183.61	0	0.00		
28-Sep-19	0	0.00	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	1090	178.69	0	0.00	0.00	
01-Oct-19	950	155.74	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	0	0.00	0	0.00		
04-Oct-19	1040	170.49	0	0.00		
05-Oct-19	0	0.00	0	0.00		
06-Oct-19	970	159.02	0	0.00		
07-Oct-19	0	0.00	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	0	0.00	0	0.00		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	2810	460.66	0	0.00		
16-Oct-19	960	157.38	0	0.00		
17-Oct-19	840	137.70	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	730	119.67	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	950	155.74	0	0.00		
22-Oct-19	0	0.00	0	0.00		
23-Oct-19	920	150.82	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	0	0.00	0	0.00		
26-Oct-19	1010	165.57	0	0.00		
27-Oct-19	0	0.00	0	0.00		
28-Oct-19	1040	170.49	0	0.00		
29-Oct-19	0	0.00	0	0.00		
30-Oct-19	980	160.66	0	0.00		
31-Oct-19	0	0.00	0	0.00	0.00	
01-Nov-19	880	144.26	0	0.00		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	0	0.00	0	0.00		
04-Nov-19	1090	178.69	212	34.75		
05-Nov-19	0	0.00	0	0.00		
06-Nov-19	1060	173.77	0	0.00		
07-Nov-19	0	0.00	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	1060	173.77	0	0.00		
10-Nov-19	0	0.00	0	0.00		
11-Nov-19	1030	168.85	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	1080	177.05	0	0.00		
15-Nov-19	650	106.56	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	0	0.00	0	0.00		
18-Nov-19	900	147.54	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	1020	167.21	0	0.00		
21-Nov-19	0	0.00	0	0.00		
22-Nov-19	940	154.10	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	940	154.10	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	930	152.46	0	0.00		

PHASE 11C

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
27-Nov-19	0	0.00	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	1030	168.85	0	0.00		
30-Nov-19	0	0.00	0	0.00	1.16	
01-Dec-19	1010	165.57	0	0.00		
02-Dec-19	0	0.00	0	0.00		
03-Dec-19	940	154.10	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	960	157.38	0	0.00		
06-Dec-19	0	0.00	166	27.28		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	970	159.02	0	0.00		
09-Dec-19	0	0.00	0	0.00		
10-Dec-19	880	144.26	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	0	0.00	0	0.00		
13-Dec-19	1000	163.93	0	0.00		
14-Dec-19	810	132.79	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	0	0.00	0	0.00		
17-Dec-19	990	162.30	0	0.00		
18-Dec-19	910	149.18	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	888	145.55	0	0.00		
22-Dec-19	0	0.00	0	0.00		
23-Dec-19	928	152.12	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	978	160.27	0	0.00		
27-Dec-19	0	0.00	0	0.00		
28-Dec-19	905	148.35	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	885	145.10	0	0.00	0.88	

PHASE 12A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	0	0.00	0	0.00		
02-Jan-19	0	0.00	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	0	0.00	0	0.00		
05-Jan-19	0	0.00	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	380	97.44	0	0.00		
08-Jan-19	0	0.00	0	0.00		
09-Jan-19	0	0.00	0	0.00		
10-Jan-19	230	58.97	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	0	0.00	0	0.00		
14-Jan-19	0	0.00	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	400	102.56	0	0.00		
17-Jan-19	0	0.00	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	0	0.00	0	0.00		
20-Jan-19	0	0.00	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	0	0.00	0	0.00		
23-Jan-19	420	107.69	0	0.00		
24-Jan-19	0	0.00	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	0	0.00	0	0.00		
27-Jan-19	400	102.56	0	0.00		
28-Jan-19	0	0.00	0	0.00		
29-Jan-19	0	0.00	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	0	0.00	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	360	92.31	0	0.00		
03-Feb-19	0	0.00	0	0.00		
04-Feb-19	0	0.00	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	0	0.00	0	0.00		
08-Feb-19	420	107.69	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	0	0.00	0	0.00		
13-Feb-19	440	112.82	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	0	0.00	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	0	0.00	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	0	0.00	0	0.00		
20-Feb-19	440	112.82	0	0.00		
21-Feb-19	390	100.00	0	0.00		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	0	0.00	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	0	0.00	0	0.00		
27-Feb-19	0	0.00	0	0.00		
28-Feb-19	0	0.00	0	0.00	0.00	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	0	0.00	0	0.00		
04-Mar-19	0	0.00	120	30.77		
05-Mar-19	0	0.00	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	420	107.69	0	0.00		
08-Mar-19	0	0.00	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	440	112.82	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	0	0.00	0	0.00		
13-Mar-19	0	0.00	0	0.00		
14-Mar-19	0	0.00	0	0.00		
15-Mar-19	170	43.59	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	0	0.00	0	0.00		
18-Mar-19	380	97.44	0	0.00		
19-Mar-19	420	107.69	0	0.00		
20-Mar-19	400	102.56	0	0.00		
21-Mar-19	990	253.85	0	0.00		
22-Mar-19	0	0.00	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	520	133.33	0	0.00		
26-Mar-19	0	0.00	0	0.00		
27-Mar-19	450	115.38	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	580	148.72	0	0.00		
31-Mar-19	0	0.00	0	0.00	0.99	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	0	0.00	0	0.00		
05-Apr-19	0	0.00	0	0.00		
06-Apr-19	40	10.26	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	0	0.00	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	0	0.00	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	0	0.00	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	0	0.00	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	0	0.00	0	0.00		

PHASE 12A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	0	0.00	0	0.00		
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	0	0.00	0	0.00		
25-Apr-19	0	0.00	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	0	0.00	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	0	0.00	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.00	
01-May-19	0	0.00	0	0.00		
02-May-19	0	0.00	0	0.00		
03-May-19	0	0.00	0	0.00		
04-May-19	0	0.00	0	0.00		
05-May-19	0	0.00	0	0.00		
06-May-19	0	0.00	0	0.00		
07-May-19	0	0.00	0	0.00		
08-May-19	0	0.00	0	0.00		
09-May-19	0	0.00	0	0.00		
10-May-19	0	0.00	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	0	0.00	0	0.00		
13-May-19	1010	258.97	0	0.00		
14-May-19	0	0.00	0	0.00		
15-May-19	0	0.00	0	0.00		
16-May-19	0	0.00	0	0.00		
17-May-19	0	0.00	0	0.00		
18-May-19	0	0.00	0	0.00		
19-May-19	0	0.00	0	0.00		
20-May-19	0	0.00	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	0	0.00	0	0.00		
23-May-19	0	0.00	0	0.00		
24-May-19	0	0.00	0	0.00		
25-May-19	0	0.00	0	0.00		
26-May-19	0	0.00	0	0.00		
27-May-19	0	0.00	0	0.00		
28-May-19	0	0.00	0	0.00		
29-May-19	0	0.00	0	0.00		
30-May-19	0	0.00	0	0.00		
31-May-19	0	0.00	0	0.00	0.00	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	0	0.00	0	0.00		
03-Jun-19	0	0.00	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	290	74.36	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	0	0.00	0	0.00		
08-Jun-19	0	0.00	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	0	0.00	0	0.00		
11-Jun-19	0	0.00	0	0.00		
12-Jun-19	540	138.46	50	12.82		
13-Jun-19	0	0.00	0	0.00		
14-Jun-19	0	0.00	52	13.33		
15-Jun-19	0	0.00	0	0.00		
16-Jun-19	0	0.00	0	0.00		
17-Jun-19	0	0.00	0	0.00		
18-Jun-19	0	0.00	0	0.00		
19-Jun-19	0	0.00	0	0.00		
20-Jun-19	40	10.26	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	380	97.44	0	0.00		
23-Jun-19	0	0.00	0	0.00		
24-Jun-19	0	0.00	0	0.00		
25-Jun-19	0	0.00	0	0.00		
26-Jun-19	0	0.00	0	0.00		
27-Jun-19	0	0.00	0	0.00		
28-Jun-19	410	105.13	0	0.00		
29-Jun-19	0	0.00	0	0.00		
30-Jun-19	0	0.00	0	0.00	0.87	
01-Jul-19	0	0.00	0	0.00		
02-Jul-19	0	0.00	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	0	0.00	0	0.00		
05-Jul-19	420	107.69	0	0.00		
06-Jul-19	0	0.00	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	0	0.00	0	0.00		
09-Jul-19	0	0.00	0	0.00		
10-Jul-19	0	0.00	0	0.00		
11-Jul-19	0	0.00	0	0.00		
12-Jul-19	0	0.00	0	0.00		
13-Jul-19	440	112.82	0	0.00		
14-Jul-19	0	0.00	0	0.00		
15-Jul-19	0	0.00	0	0.00		
16-Jul-19	0	0.00	0	0.00		
17-Jul-19	0	0.00	0	0.00		
18-Jul-19	0	0.00	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	420	107.69	0	0.00		
21-Jul-19	0	0.00	0	0.00		
22-Jul-19	0	0.00	0	0.00		
23-Jul-19	0	0.00	0	0.00		
24-Jul-19	0	0.00	0	0.00		
25-Jul-19	0	0.00	0	0.00		
26-Jul-19	0	0.00	0	0.00		
27-Jul-19	0	0.00	0	0.00		
28-Jul-19	420	107.69	0	0.00		
29-Jul-19	0	0.00	0	0.00		
30-Jul-19	0	0.00	0	0.00		
31-Jul-19	0	0.00	0	0.00	0.00	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	0	0.00	0	0.00		
03-Aug-19	0	0.00	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	420	107.69	0	0.00		
06-Aug-19	0	0.00	0	0.00		
07-Aug-19	0	0.00	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	0	0.00	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 12A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	410	105.13	0	0.00		
13-Aug-19	0	0.00	0	0.00		
14-Aug-19	0	0.00	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	0	0.00	0	0.00		
17-Aug-19	0	0.00	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	420	107.69	0	0.00		
21-Aug-19	0	0.00	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	0	0.00	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	0	0.00	0	0.00		
26-Aug-19	0	0.00	0	0.00		
27-Aug-19	430	110.26	1171	300.26		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	0	0.00	0	0.00		
30-Aug-19	0	0.00	0	0.00		
31-Aug-19	0	0.00	0	0.00	9.69	
01-Sep-19	0	0.00	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	0	0.00	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	440	112.82	0	0.00		
06-Sep-19	0	0.00	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	0	0.00	0	0.00		
11-Sep-19	0	0.00	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	0	0.00	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	0	0.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	0	0.00	0	0.00		
21-Sep-19	0	0.00	0	0.00		
22-Sep-19	0	0.00	0	0.00		
23-Sep-19	0	0.00	0	0.00		
24-Sep-19	0	0.00	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	0	0.00	0	0.00		
27-Sep-19	0	0.00	0	0.00		
28-Sep-19	0	0.00	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	0	0.00	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	0	0.00	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	400	102.56	0	0.00		
06-Oct-19	0	0.00	0	0.00		
07-Oct-19	0	0.00	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	0	0.00	0	0.00		
11-Oct-19	0	0.00	0	0.00		
12-Oct-19	400	102.56	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	0	0.00	0	0.00		
16-Oct-19	0	0.00	0	0.00		
17-Oct-19	0	0.00	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	0	0.00	0	0.00		
20-Oct-19	400	102.56	0	0.00		
21-Oct-19	0	0.00	0	0.00		
22-Oct-19	0	0.00	0	0.00		
23-Oct-19	0	0.00	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	0	0.00	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	400	102.56	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	0	0.00	0	0.00		
30-Oct-19	0	0.00	0	0.00		
31-Oct-19	0	0.00	0	0.00	0.00	
01-Nov-19	420	107.69	0	0.00		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	0	0.00	0	0.00		
04-Nov-19	0	0.00	0	0.00		
05-Nov-19	420	107.69	0	0.00		
06-Nov-19	0	0.00	0	0.00		
07-Nov-19	0	0.00	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	420	107.69	0	0.00		
10-Nov-19	0	0.00	0	0.00		
11-Nov-19	0	0.00	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	420	107.69	0	0.00		
14-Nov-19	0	0.00	0	0.00		
15-Nov-19	0	0.00	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	420	107.69	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	0	0.00	0	0.00		
21-Nov-19	420	107.69	0	0.00		
22-Nov-19	0	0.00	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	0	0.00	0	0.00		
25-Nov-19	420	107.69	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	0	0.00	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	120	30.77	0	0.00		

PHASE 12A

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	0	0.00	0	0.00	0.00	
01-Dec-19	0	0.00	0	0.00		
02-Dec-19	0	0.00	0	0.00		
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	0	0.00	0	0.00		
06-Dec-19	0	0.00	0	0.00		
07-Dec-19	790	202.56	0	0.00		
08-Dec-19	237	60.77	0	0.00		
09-Dec-19	0	0.00	0	0.00		
10-Dec-19	0	0.00	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	2058	527.65	0	0.00		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	0	0.00	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	471	120.66	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	0	0.00	0	0.00		
19-Dec-19	0	0.00	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	0	0.00	0	0.00		
23-Dec-19	479	122.80	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	0	0.00	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	440	112.82	0	0.00	0.00	

PHASE 12B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
01-Jan-19	0	0.00	0	0.00		
02-Jan-19	0	0.00	0	0.00		
03-Jan-19	0	0.00	0	0.00		
04-Jan-19	0	0.00	0	0.00		
05-Jan-19	283	85.76	0	0.00		
06-Jan-19	0	0.00	0	0.00		
07-Jan-19	0	0.00	0	0.00		
08-Jan-19	0	0.00	0	0.00		
09-Jan-19	288	87.27	0	0.00		
10-Jan-19	0	0.00	0	0.00		
11-Jan-19	0	0.00	0	0.00		
12-Jan-19	0	0.00	0	0.00		
13-Jan-19	0	0.00	0	0.00		
14-Jan-19	288	87.27	0	0.00		
15-Jan-19	0	0.00	0	0.00		
16-Jan-19	0	0.00	0	0.00		
17-Jan-19	0	0.00	0	0.00		
18-Jan-19	0	0.00	0	0.00		
19-Jan-19	0	0.00	0	0.00		
20-Jan-19	280	84.85	0	0.00		
21-Jan-19	0	0.00	0	0.00		
22-Jan-19	0	0.00	0	0.00		
23-Jan-19	0	0.00	0	0.00		
24-Jan-19	240	72.73	0	0.00		
25-Jan-19	0	0.00	0	0.00		
26-Jan-19	0	0.00	0	0.00		
27-Jan-19	0	0.00	0	0.00		
28-Jan-19	0	0.00	0	0.00		
29-Jan-19	268	81.21	0	0.00		
30-Jan-19	0	0.00	0	0.00		
31-Jan-19	0	0.00	0	0.00	0.00	
01-Feb-19	0	0.00	0	0.00		
02-Feb-19	272	82.42	0	0.00		
03-Feb-19	260	78.79	0	0.00		
04-Feb-19	0	0.00	0	0.00		
05-Feb-19	0	0.00	0	0.00		
06-Feb-19	0	0.00	0	0.00		
07-Feb-19	0	0.00	0	0.00		
08-Feb-19	278	84.24	0	0.00		
09-Feb-19	0	0.00	0	0.00		
10-Feb-19	0	0.00	0	0.00		
11-Feb-19	0	0.00	0	0.00		
12-Feb-19	272	82.42	0	0.00		
13-Feb-19	0	0.00	0	0.00		
14-Feb-19	0	0.00	0	0.00		
15-Feb-19	0	0.00	0	0.00		
16-Feb-19	0	0.00	0	0.00		
17-Feb-19	0	0.00	0	0.00		
18-Feb-19	0	0.00	0	0.00		
19-Feb-19	0	0.00	0	0.00		
20-Feb-19	0	0.00	0	0.00		
21-Feb-19	310	93.94	0	0.00		
22-Feb-19	0	0.00	0	0.00		
23-Feb-19	0	0.00	0	0.00		
24-Feb-19	0	0.00	0	0.00		
25-Feb-19	0	0.00	0	0.00		
26-Feb-19	360	109.09	0	0.00		
27-Feb-19	0	0.00	0	0.00		
28-Feb-19	0	0.00	0	0.00	0.00	
01-Mar-19	0	0.00	0	0.00		
02-Mar-19	0	0.00	0	0.00		
03-Mar-19	0	0.00	0	0.00		
04-Mar-19	0	0.00	0	0.00		
05-Mar-19	0	0.00	0	0.00		
06-Mar-19	0	0.00	0	0.00		
07-Mar-19	0	0.00	0	0.00		
08-Mar-19	0	0.00	0	0.00		
09-Mar-19	0	0.00	0	0.00		
10-Mar-19	0	0.00	0	0.00		
11-Mar-19	0	0.00	0	0.00		
12-Mar-19	0	0.00	0	0.00		
13-Mar-19	348	105.45	0	0.00		
14-Mar-19	0	0.00	0	0.00		
15-Mar-19	0	0.00	0	0.00		
16-Mar-19	0	0.00	0	0.00		
17-Mar-19	0	0.00	0	0.00		
18-Mar-19	0	0.00	0	0.00		
19-Mar-19	0	0.00	0	0.00		
20-Mar-19	0	0.00	0	0.00		
21-Mar-19	0	0.00	0	0.00		
22-Mar-19	0	0.00	0	0.00		
23-Mar-19	0	0.00	0	0.00		
24-Mar-19	0	0.00	0	0.00		
25-Mar-19	0	0.00	0	0.00		
26-Mar-19	0	0.00	0	0.00		
27-Mar-19	0	0.00	0	0.00		
28-Mar-19	0	0.00	0	0.00		
29-Mar-19	0	0.00	0	0.00		
30-Mar-19	0	0.00	0	0.00		
31-Mar-19	0	0.00	0	0.00	0.00	
01-Apr-19	0	0.00	0	0.00		
02-Apr-19	0	0.00	0	0.00		
03-Apr-19	0	0.00	0	0.00		
04-Apr-19	3549	1075.45	0	0.00		
05-Apr-19	0	0.00	0	0.00		
06-Apr-19	0	0.00	0	0.00		
07-Apr-19	0	0.00	0	0.00		
08-Apr-19	0	0.00	0	0.00		
09-Apr-19	0	0.00	0	0.00		
10-Apr-19	0	0.00	0	0.00		
11-Apr-19	13625	4128.79	0	0.00		
12-Apr-19	0	0.00	0	0.00		
13-Apr-19	0	0.00	0	0.00		
14-Apr-19	0	0.00	0	0.00		
15-Apr-19	0	0.00	0	0.00		
16-Apr-19	0	0.00	0	0.00		
17-Apr-19	0	0.00	0	0.00		
18-Apr-19	0	0.00	0	0.00		
19-Apr-19	0	0.00	0	0.00		
20-Apr-19	0	0.00	0	0.00		
21-Apr-19	0	0.00	0	0.00		

PHASE 12B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
22-Apr-19	112	33.94	0	0.00		
23-Apr-19	0	0.00	0	0.00		
24-Apr-19	8080	2448.48	0	0.00		
25-Apr-19	0	0.00	0	0.00		
26-Apr-19	0	0.00	0	0.00		
27-Apr-19	0	0.00	0	0.00		
28-Apr-19	0	0.00	0	0.00		
29-Apr-19	0	0.00	0	0.00		
30-Apr-19	0	0.00	0	0.00	0.00	
01-May-19	0	0.00	0	0.00		
02-May-19	0	0.00	0	0.00		
03-May-19	0	0.00	0	0.00		
04-May-19	0	0.00	0	0.00		
05-May-19	0	0.00	0	0.00		
06-May-19	0	0.00	0	0.00		
07-May-19	234	70.91	0	0.00		
08-May-19	0	0.00	0	0.00		
09-May-19	2003	606.97	7	2.12		
10-May-19	0	0.00	0	0.00		
11-May-19	0	0.00	0	0.00		
12-May-19	0	0.00	0	0.00		
13-May-19	0	0.00	0	0.00		
14-May-19	0	0.00	0	0.00		
15-May-19	0	0.00	0	0.00		
16-May-19	270	81.82	0	0.00		
17-May-19	0	0.00	0	0.00		
18-May-19	0	0.00	0	0.00		
19-May-19	0	0.00	0	0.00		
20-May-19	0	0.00	0	0.00		
21-May-19	0	0.00	0	0.00		
22-May-19	204	61.82	0	0.00		
23-May-19	0	0.00	0	0.00		
24-May-19	0	0.00	0	0.00		
25-May-19	0	0.00	0	0.00		
26-May-19	0	0.00	0	0.00		
27-May-19	212	64.24	0	0.00		
28-May-19	0	0.00	0	0.00		
29-May-19	0	0.00	0	0.00		
30-May-19	0	0.00	0	0.00		
31-May-19	0	0.00	0	0.00	0.07	
01-Jun-19	0	0.00	0	0.00		
02-Jun-19	207	62.73	0	0.00		
03-Jun-19	0	0.00	0	0.00		
04-Jun-19	0	0.00	0	0.00		
05-Jun-19	0	0.00	0	0.00		
06-Jun-19	0	0.00	0	0.00		
07-Jun-19	204	61.82	0	0.00		
08-Jun-19	0	0.00	0	0.00		
09-Jun-19	0	0.00	0	0.00		
10-Jun-19	0	0.00	0	0.00		
11-Jun-19	0	0.00	0	0.00		
12-Jun-19	340	103.03	124	37.58		
13-Jun-19	0	0.00	0	0.00		
14-Jun-19	0	0.00	0	0.00		
15-Jun-19	0	0.00	0	0.00		
16-Jun-19	0	0.00	0	0.00		
17-Jun-19	276	83.64	0	0.00		
18-Jun-19	0	0.00	0	0.00		
19-Jun-19	0	0.00	0	0.00		
20-Jun-19	0	0.00	0	0.00		
21-Jun-19	0	0.00	0	0.00		
22-Jun-19	0	0.00	0	0.00		
23-Jun-19	276	83.64	0	0.00		
24-Jun-19	0	0.00	0	0.00		
25-Jun-19	0	0.00	0	0.00		
26-Jun-19	0	0.00	0	0.00		
27-Jun-19	0	0.00	0	0.00		
28-Jun-19	0	0.00	0	0.00		
29-Jun-19	272	82.42	0	0.00		
30-Jun-19	0	0.00	0	0.00	1.25	
01-Jul-19	0	0.00	0	0.00		
02-Jul-19	0	0.00	0	0.00		
03-Jul-19	0	0.00	0	0.00		
04-Jul-19	0	0.00	0	0.00		
05-Jul-19	0	0.00	0	0.00		
06-Jul-19	201	60.91	0	0.00		
07-Jul-19	0	0.00	0	0.00		
08-Jul-19	0	0.00	0	0.00		
09-Jul-19	0	0.00	0	0.00		
10-Jul-19	0	0.00	0	0.00		
11-Jul-19	0	0.00	0	0.00		
12-Jul-19	0	0.00	0	0.00		
13-Jul-19	204	61.82	0	0.00		
14-Jul-19	0	0.00	0	0.00		
15-Jul-19	0	0.00	0	0.00		
16-Jul-19	0	0.00	0	0.00		
17-Jul-19	0	0.00	0	0.00		
18-Jul-19	207	62.73	0	0.00		
19-Jul-19	0	0.00	0	0.00		
20-Jul-19	0	0.00	0	0.00		
21-Jul-19	0	0.00	0	0.00		
22-Jul-19	0	0.00	0	0.00		
23-Jul-19	0	0.00	0	0.00		
24-Jul-19	0	0.00	0	0.00		
25-Jul-19	204	61.82	0	0.00		
26-Jul-19	0	0.00	0	0.00		
27-Jul-19	0	0.00	0	0.00		
28-Jul-19	0	0.00	0	0.00		
29-Jul-19	0	0.00	0	0.00		
30-Jul-19	0	0.00	0	0.00		
31-Jul-19	207	62.73	0	0.00	0.00	
01-Aug-19	0	0.00	0	0.00		
02-Aug-19	0	0.00	0	0.00		
03-Aug-19	0	0.00	0	0.00		
04-Aug-19	0	0.00	0	0.00		
05-Aug-19	0	0.00	0	0.00		
06-Aug-19	28	8.48	2	0.61		
07-Aug-19	0	0.00	0	0.00		
08-Aug-19	0	0.00	0	0.00		
09-Aug-19	0	0.00	0	0.00		
10-Aug-19	0	0.00	0	0.00		

PHASE 12B

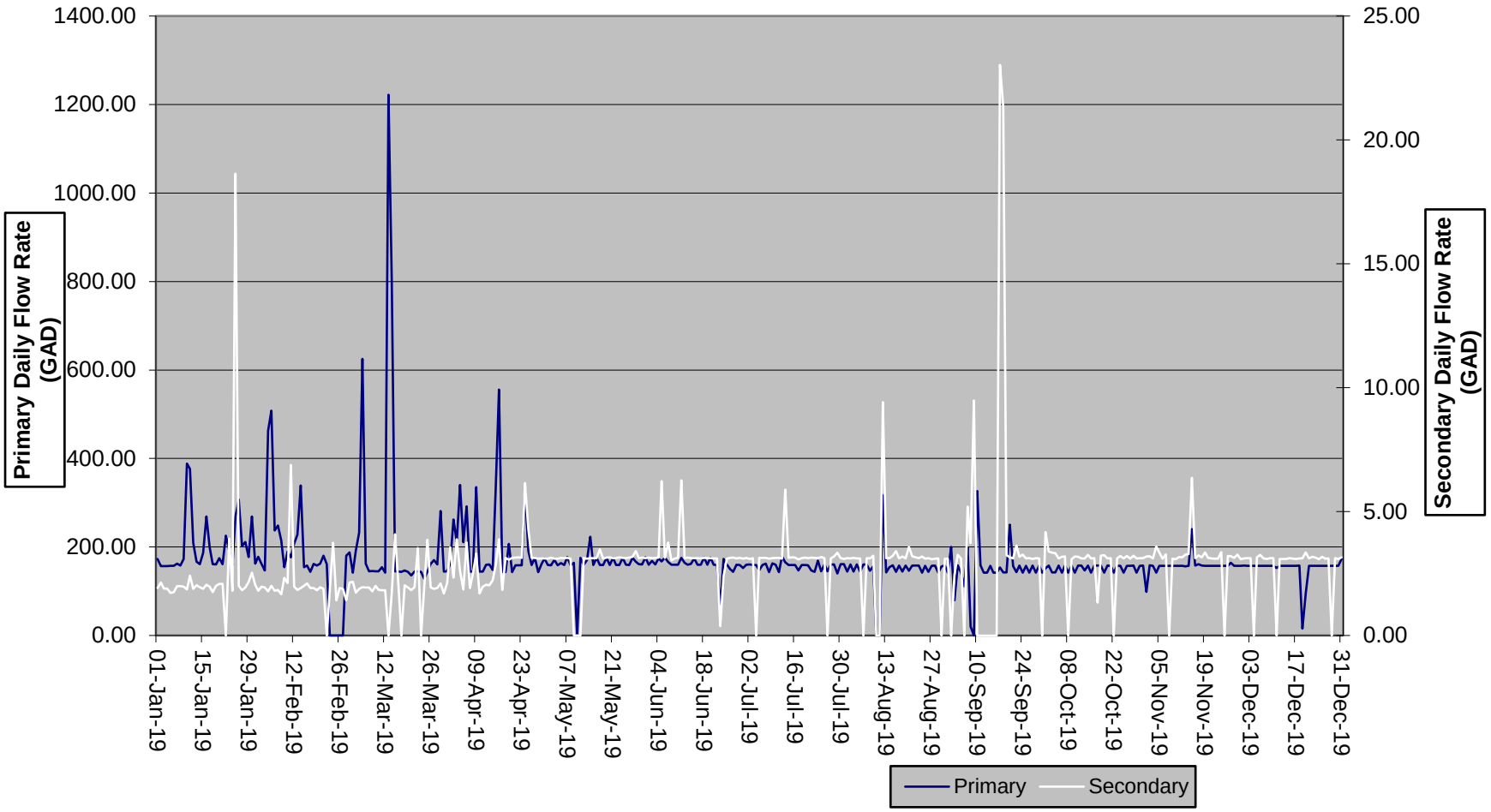
	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
11-Aug-19	0	0.00	0	0.00		
12-Aug-19	204	61.82	0	0.00		
13-Aug-19	0	0.00	0	0.00		
14-Aug-19	0	0.00	0	0.00		
15-Aug-19	0	0.00	0	0.00		
16-Aug-19	0	0.00	0	0.00		
17-Aug-19	0	0.00	0	0.00		
18-Aug-19	0	0.00	0	0.00		
19-Aug-19	0	0.00	0	0.00		
20-Aug-19	0	0.00	0	0.00		
21-Aug-19	0	0.00	0	0.00		
22-Aug-19	0	0.00	0	0.00		
23-Aug-19	0	0.00	0	0.00		
24-Aug-19	0	0.00	0	0.00		
25-Aug-19	201	60.91	0	0.00		
26-Aug-19	0	0.00	0	0.00		
27-Aug-19	0	0.00	32	9.70		
28-Aug-19	0	0.00	0	0.00		
29-Aug-19	0	0.00	0	0.00		
30-Aug-19	216	65.45	0	0.00		
31-Aug-19	0	0.00	0	0.00	0.33	
01-Sep-19	0	0.00	0	0.00		
02-Sep-19	0	0.00	0	0.00		
03-Sep-19	0	0.00	0	0.00		
04-Sep-19	0	0.00	0	0.00		
05-Sep-19	0	0.00	0	0.00		
06-Sep-19	204	61.82	0	0.00		
07-Sep-19	0	0.00	0	0.00		
08-Sep-19	0	0.00	0	0.00		
09-Sep-19	0	0.00	0	0.00		
10-Sep-19	0	0.00	0	0.00		
11-Sep-19	0	0.00	0	0.00		
12-Sep-19	0	0.00	0	0.00		
13-Sep-19	0	0.00	0	0.00		
14-Sep-19	0	0.00	0	0.00		
15-Sep-19	0	0.00	0	0.00		
16-Sep-19	0	0.00	0	0.00		
17-Sep-19	0	0.00	0	0.00		
18-Sep-19	0	0.00	0	0.00		
19-Sep-19	0	0.00	0	0.00		
20-Sep-19	208	63.03	0	0.00		
21-Sep-19	0	0.00	0	0.00		
22-Sep-19	0	0.00	0	0.00		
23-Sep-19	0	0.00	0	0.00		
24-Sep-19	0	0.00	0	0.00		
25-Sep-19	0	0.00	0	0.00		
26-Sep-19	204	61.82	0	0.00		
27-Sep-19	0	0.00	0	0.00		
28-Sep-19	0	0.00	0	0.00		
29-Sep-19	0	0.00	0	0.00		
30-Sep-19	0	0.00	0	0.00	0.00	
01-Oct-19	0	0.00	0	0.00		
02-Oct-19	0	0.00	0	0.00		
03-Oct-19	218	66.06	0	0.00		
04-Oct-19	0	0.00	0	0.00		
05-Oct-19	0	0.00	0	0.00		
06-Oct-19	0	0.00	0	0.00		
07-Oct-19	0	0.00	0	0.00		
08-Oct-19	0	0.00	0	0.00		
09-Oct-19	0	0.00	0	0.00		
10-Oct-19	201	60.91	0	0.00		
11-Oct-19	0	0.00	70	21.21		
12-Oct-19	0	0.00	0	0.00		
13-Oct-19	0	0.00	0	0.00		
14-Oct-19	0	0.00	0	0.00		
15-Oct-19	0	0.00	0	0.00		
16-Oct-19	0	0.00	0	0.00		
17-Oct-19	0	0.00	0	0.00		
18-Oct-19	0	0.00	0	0.00		
19-Oct-19	0	0.00	0	0.00		
20-Oct-19	0	0.00	0	0.00		
21-Oct-19	302	91.52	0	0.00		
22-Oct-19	710	215.15	0	0.00		
23-Oct-19	0	0.00	0	0.00		
24-Oct-19	0	0.00	0	0.00		
25-Oct-19	0	0.00	0	0.00		
26-Oct-19	0	0.00	0	0.00		
27-Oct-19	0	0.00	0	0.00		
28-Oct-19	0	0.00	0	0.00		
29-Oct-19	0	0.00	0	0.00		
30-Oct-19	0	0.00	0	0.00		
31-Oct-19	0	0.00	52	15.76	1.19	
01-Nov-19	0	0.00	0	0.00		
02-Nov-19	0	0.00	0	0.00		
03-Nov-19	0	0.00	0	0.00		
04-Nov-19	0	0.00	13	3.94		
05-Nov-19	0	0.00	0	0.00		
06-Nov-19	0	0.00	0	0.00		
07-Nov-19	0	0.00	0	0.00		
08-Nov-19	0	0.00	0	0.00		
09-Nov-19	0	0.00	0	0.00		
10-Nov-19	0	0.00	0	0.00		
11-Nov-19	0	0.00	0	0.00		
12-Nov-19	0	0.00	0	0.00		
13-Nov-19	0	0.00	0	0.00		
14-Nov-19	0	0.00	0	0.00		
15-Nov-19	0	0.00	0	0.00		
16-Nov-19	0	0.00	0	0.00		
17-Nov-19	0	0.00	0	0.00		
18-Nov-19	0	0.00	0	0.00		
19-Nov-19	0	0.00	0	0.00		
20-Nov-19	0	0.00	0	0.00		
21-Nov-19	0	0.00	0	0.00		
22-Nov-19	0	0.00	0	0.00		
23-Nov-19	0	0.00	0	0.00		
24-Nov-19	0	0.00	0	0.00		
25-Nov-19	0	0.00	0	0.00		
26-Nov-19	0	0.00	0	0.00		
27-Nov-19	3459	1048.18	0	0.00		
28-Nov-19	0	0.00	0	0.00		
29-Nov-19	0	0.00	0	0.00		

PHASE 12B

	PRIMARY		SECONDARY			
DATE	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*INCREMENTAL FLOW* (gals)	*DAILY FLOW RATE* (gad)	*MONTHLY AVERAGE DAILY FLOW RATE* (gad)	OBSERVATIONS/COMMENTS
30-Nov-19	0	0.00	0	0.00	0.13	
01-Dec-19	0	0.00	0	0.00		
02-Dec-19	0	0.00	0	0.00		
03-Dec-19	0	0.00	0	0.00		
04-Dec-19	0	0.00	0	0.00		
05-Dec-19	0	0.00	0	0.00		
06-Dec-19	1565	474.24	58	17.58		
07-Dec-19	0	0.00	0	0.00		
08-Dec-19	5	1.52	0	0.00		
09-Dec-19	3946	1195.76	0	0.00		
10-Dec-19	0	0.00	0	0.00		
11-Dec-19	0	0.00	0	0.00		
12-Dec-19	970	293.94	0	0.00		
13-Dec-19	0	0.00	0	0.00		
14-Dec-19	0	0.00	0	0.00		
15-Dec-19	0	0.00	0	0.00		
16-Dec-19	0	0.00	0	0.00		
17-Dec-19	0	0.00	0	0.00		
18-Dec-19	22	6.75	0	0.00		
19-Dec-19	25	7.67	0	0.00		
20-Dec-19	0	0.00	0	0.00		
21-Dec-19	0	0.00	0	0.00		
22-Dec-19	0	0.00	0	0.00		
23-Dec-19	0	0.00	0	0.00		
24-Dec-19	0	0.00	0	0.00		
25-Dec-19	0	0.00	0	0.00		
26-Dec-19	0	0.00	0	0.00		
27-Dec-19	0	0.00	0	0.00		
28-Dec-19	0	0.00	0	0.00		
29-Dec-19	0	0.00	0	0.00		
30-Dec-19	0	0.00	0	0.00		
31-Dec-19	0	0.00	0	0.00	0.57	

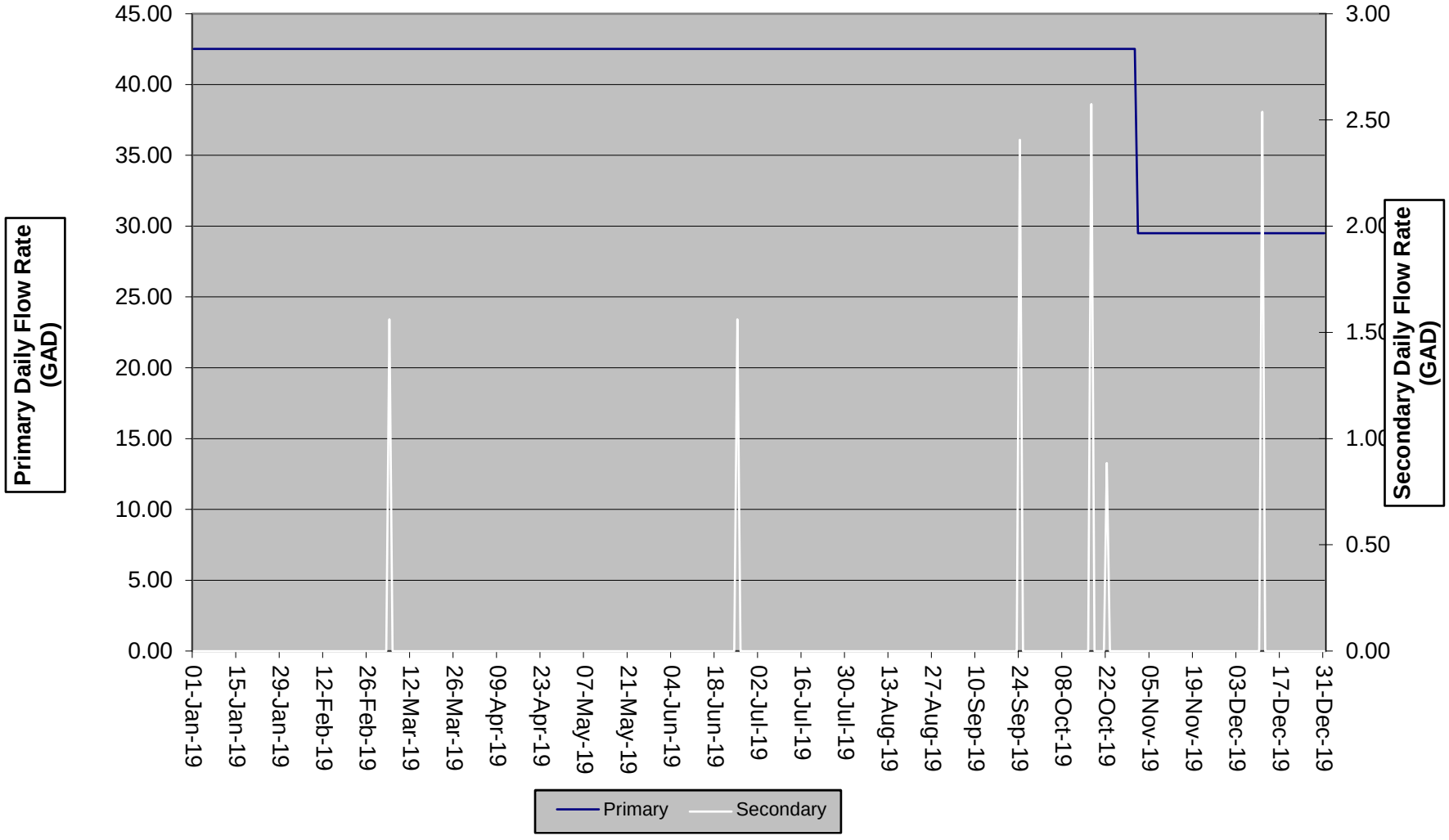
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 1,2, & 3



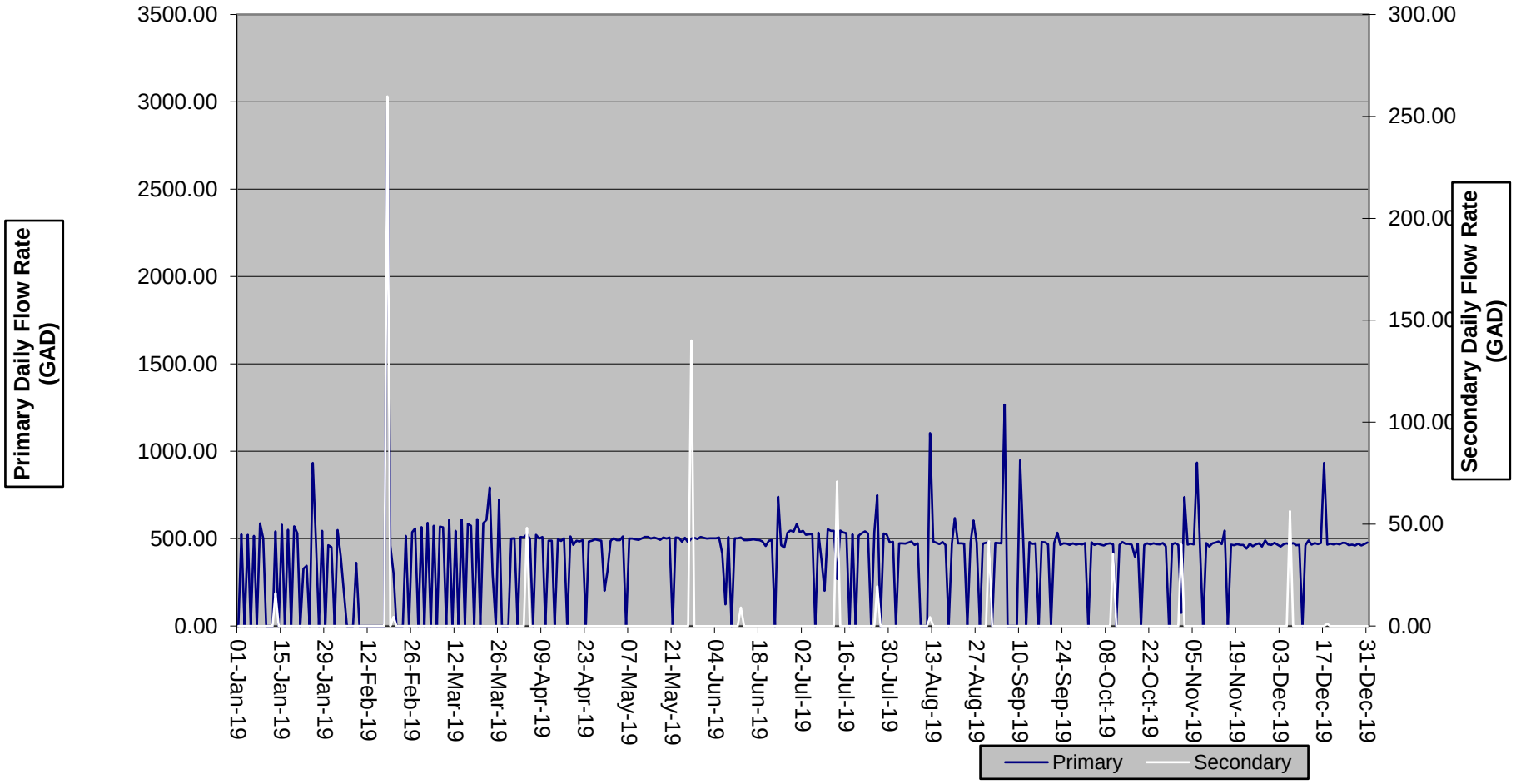
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 4&5



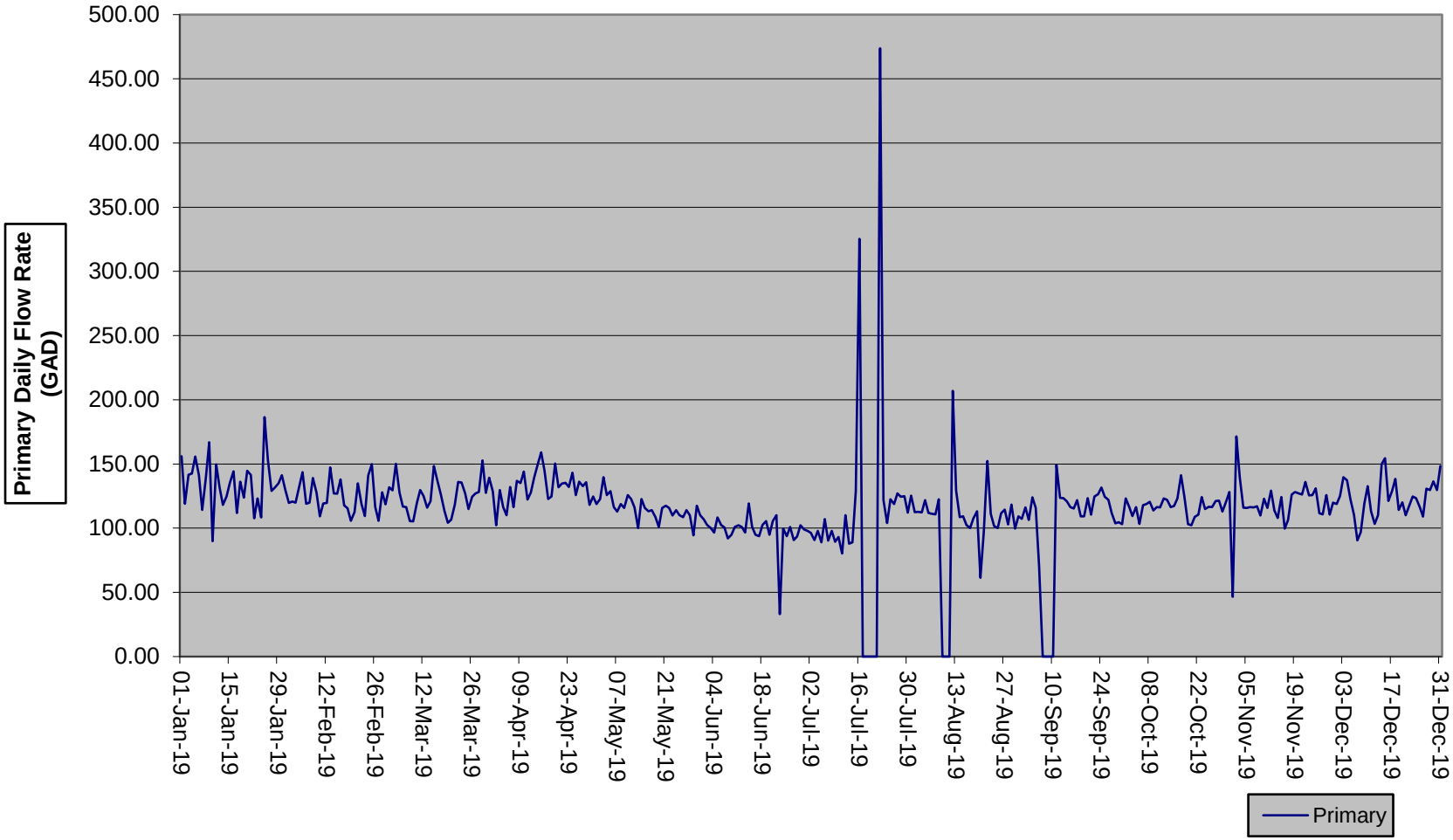
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 7



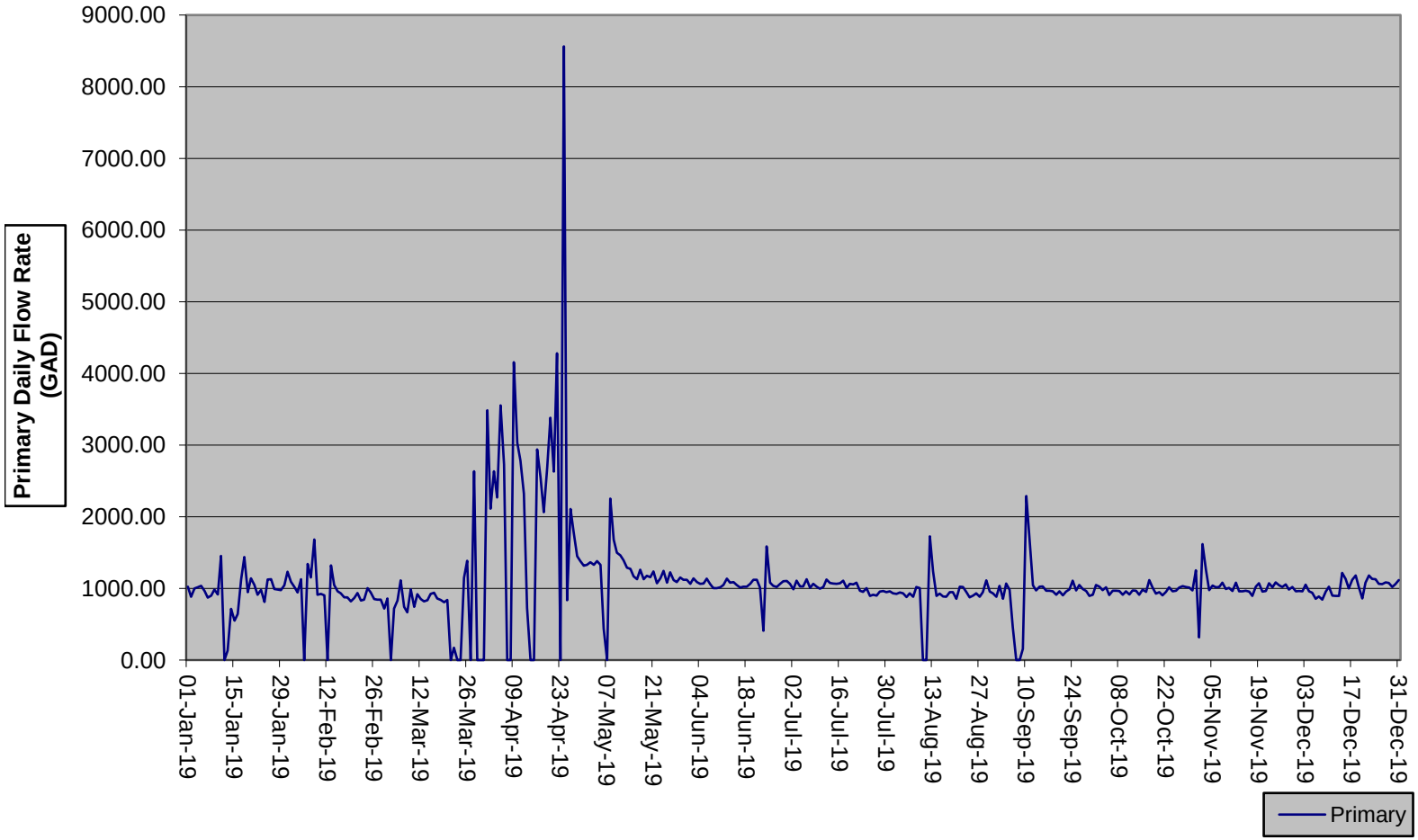
LIQUID FLOW IN PRIMARY LCS

PHASE 8, CELL A



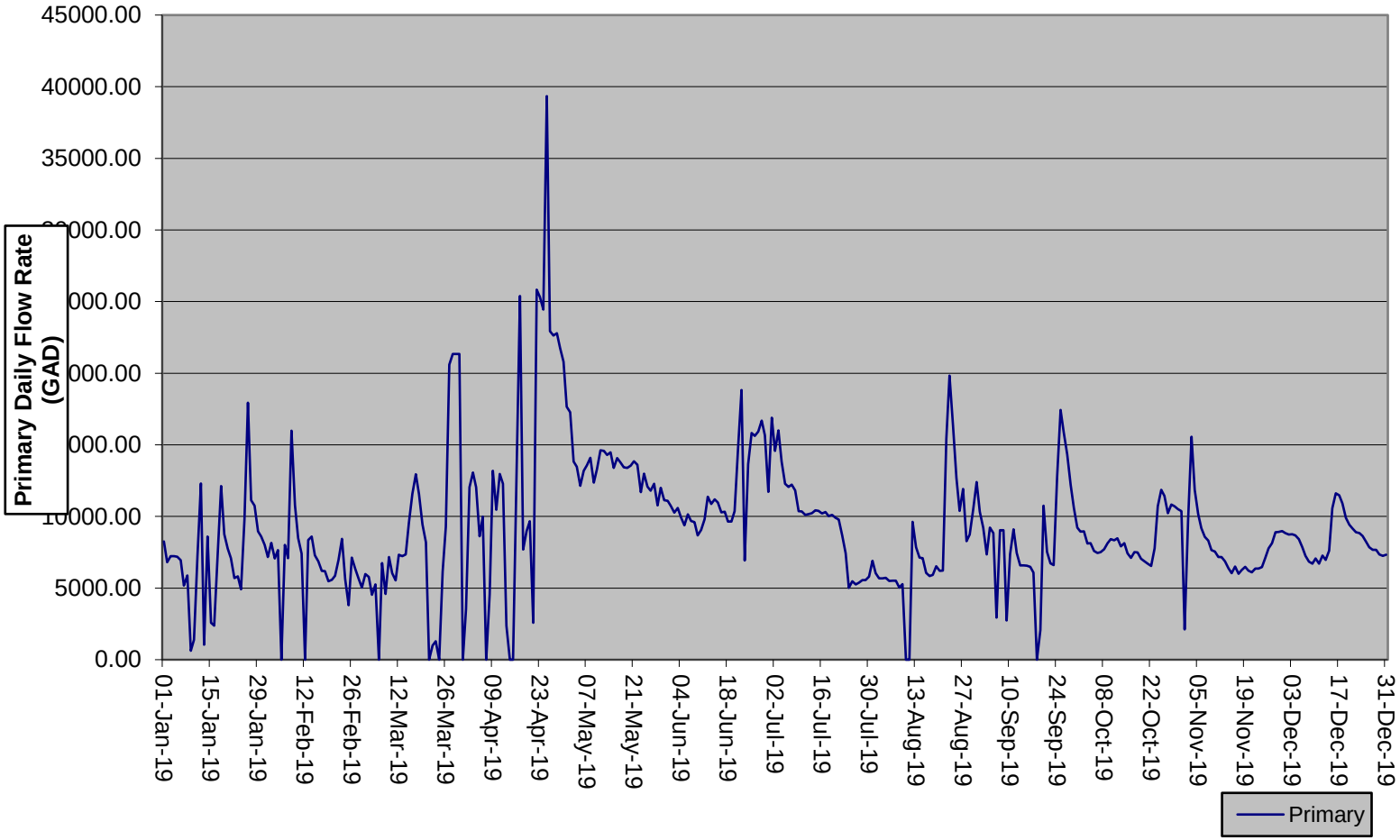
LIQUID FLOW IN PRIMARY LCS

PHASE 8, CELL B



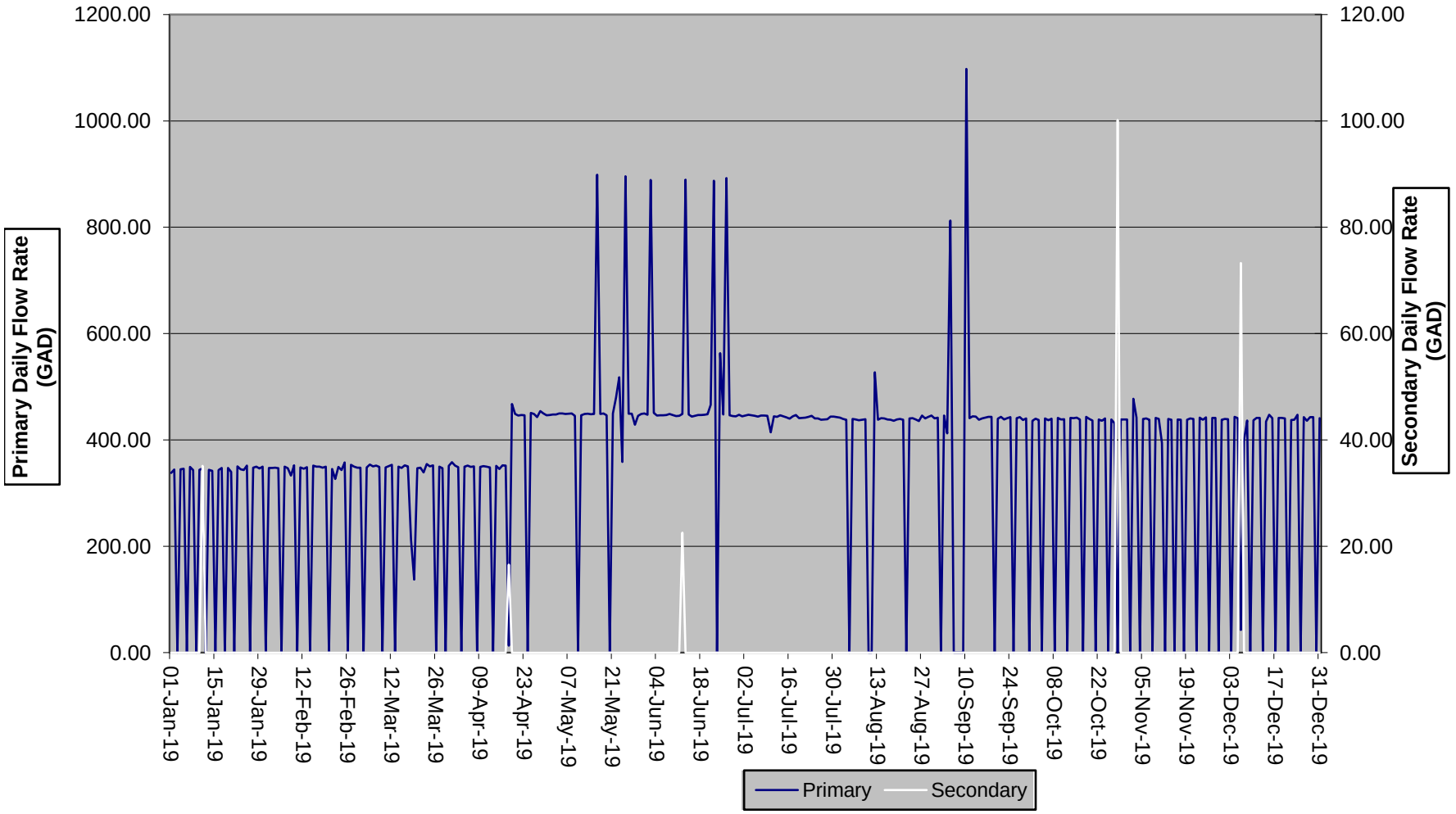
LIQUID FLOW IN PRIMARY LCS

PHASE 8, CELL C



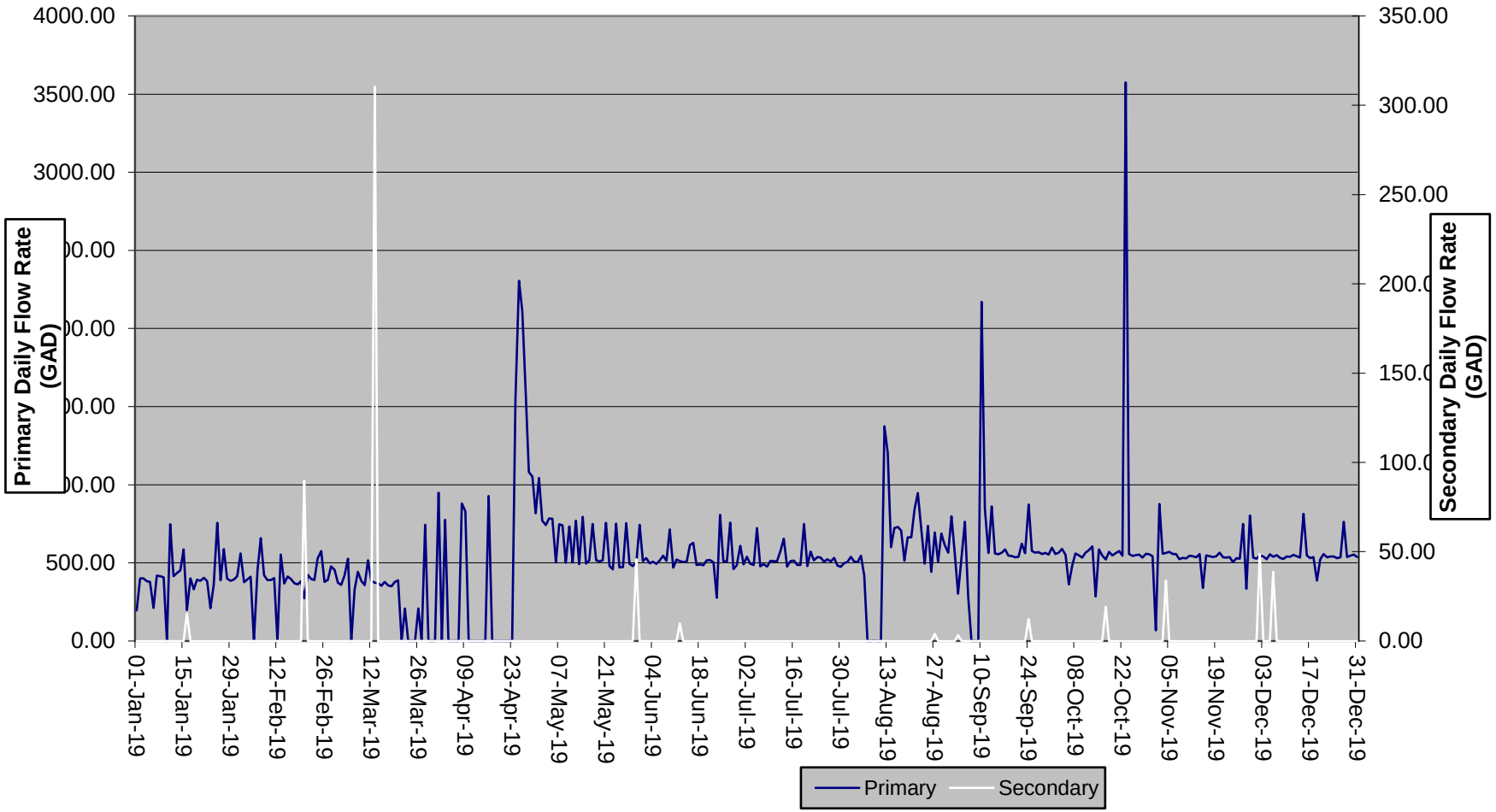
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 9, CELL A



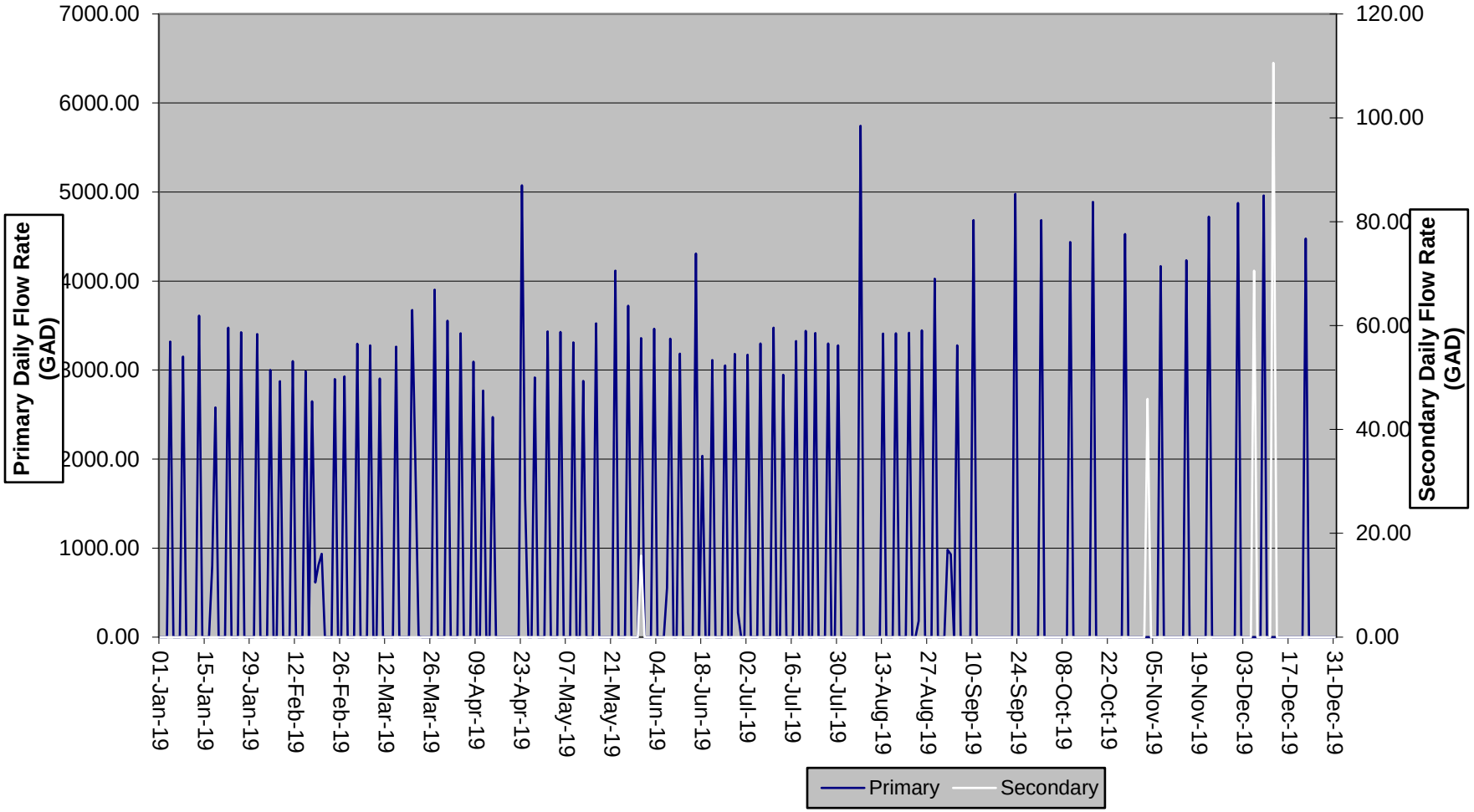
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 9, CELL B



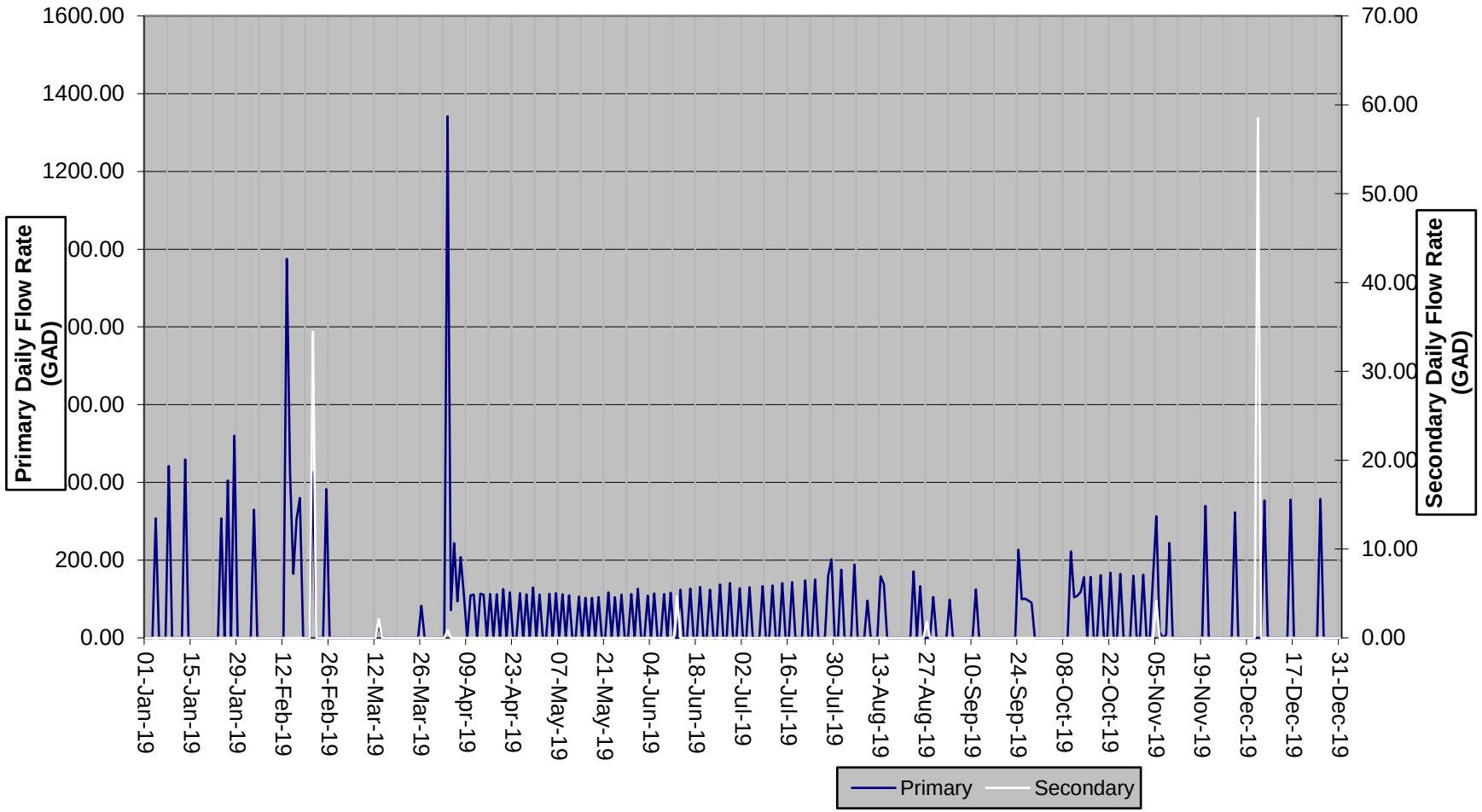
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 9, CELL C



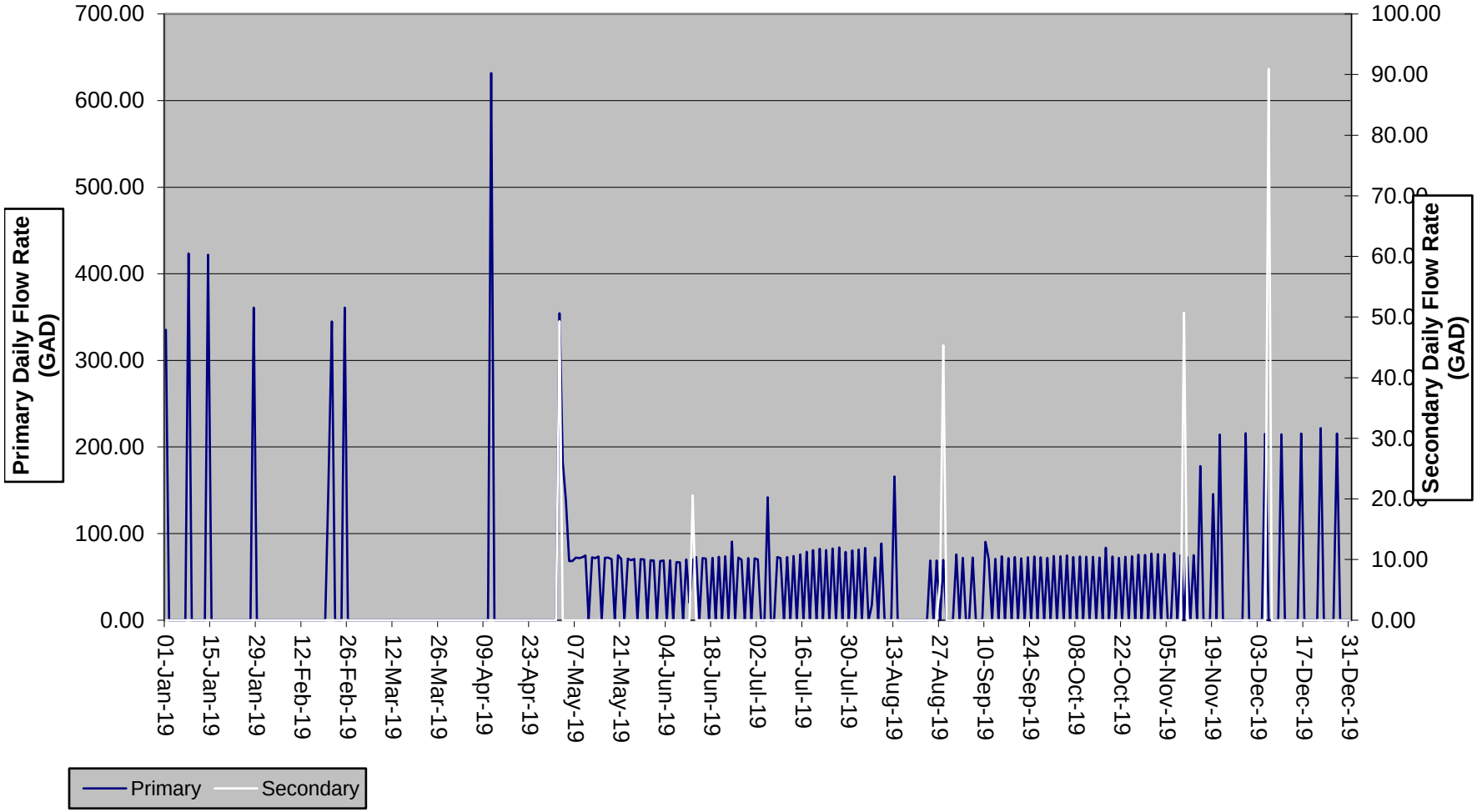
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 10, CELL A



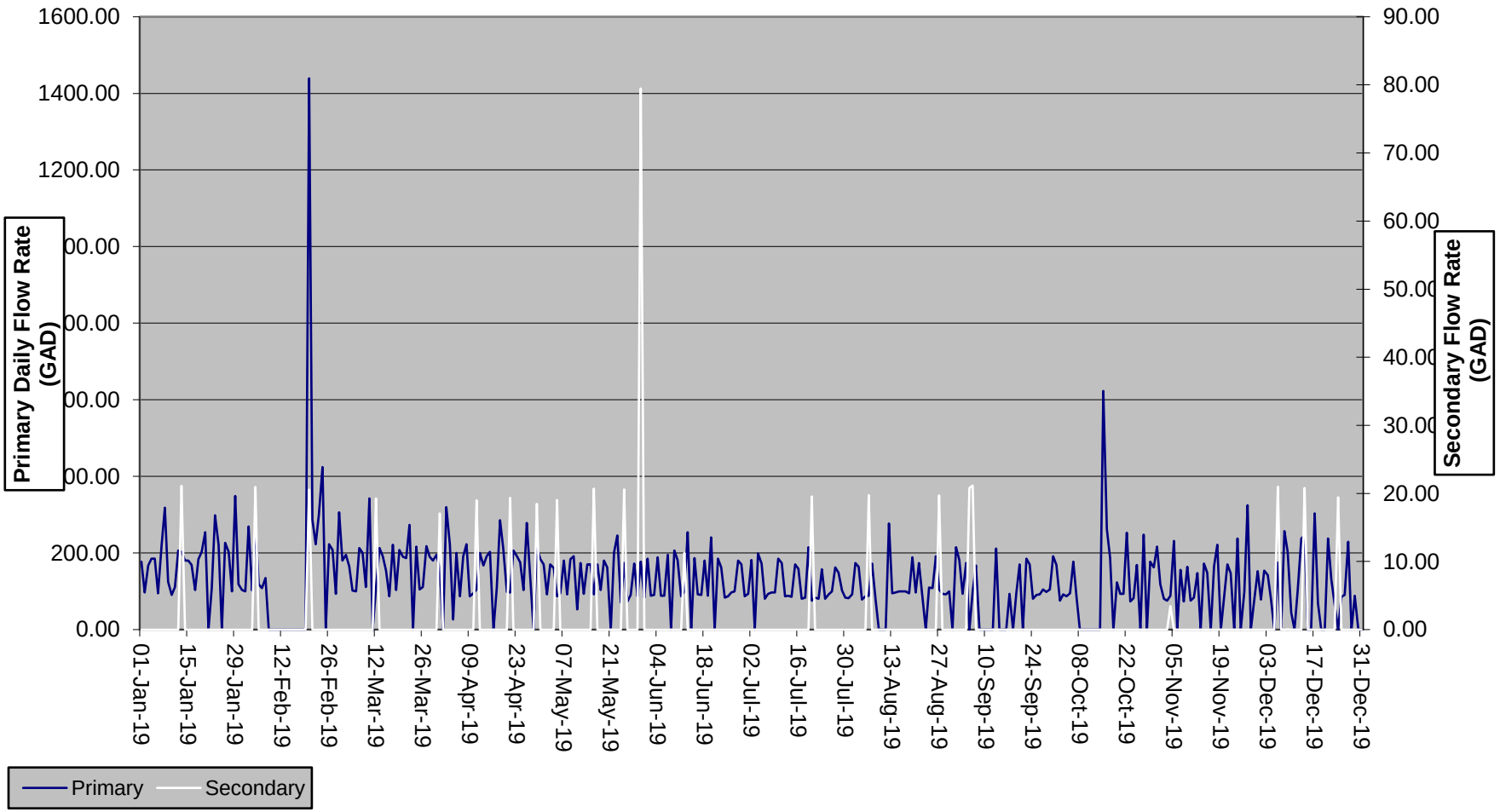
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 10, CELL B



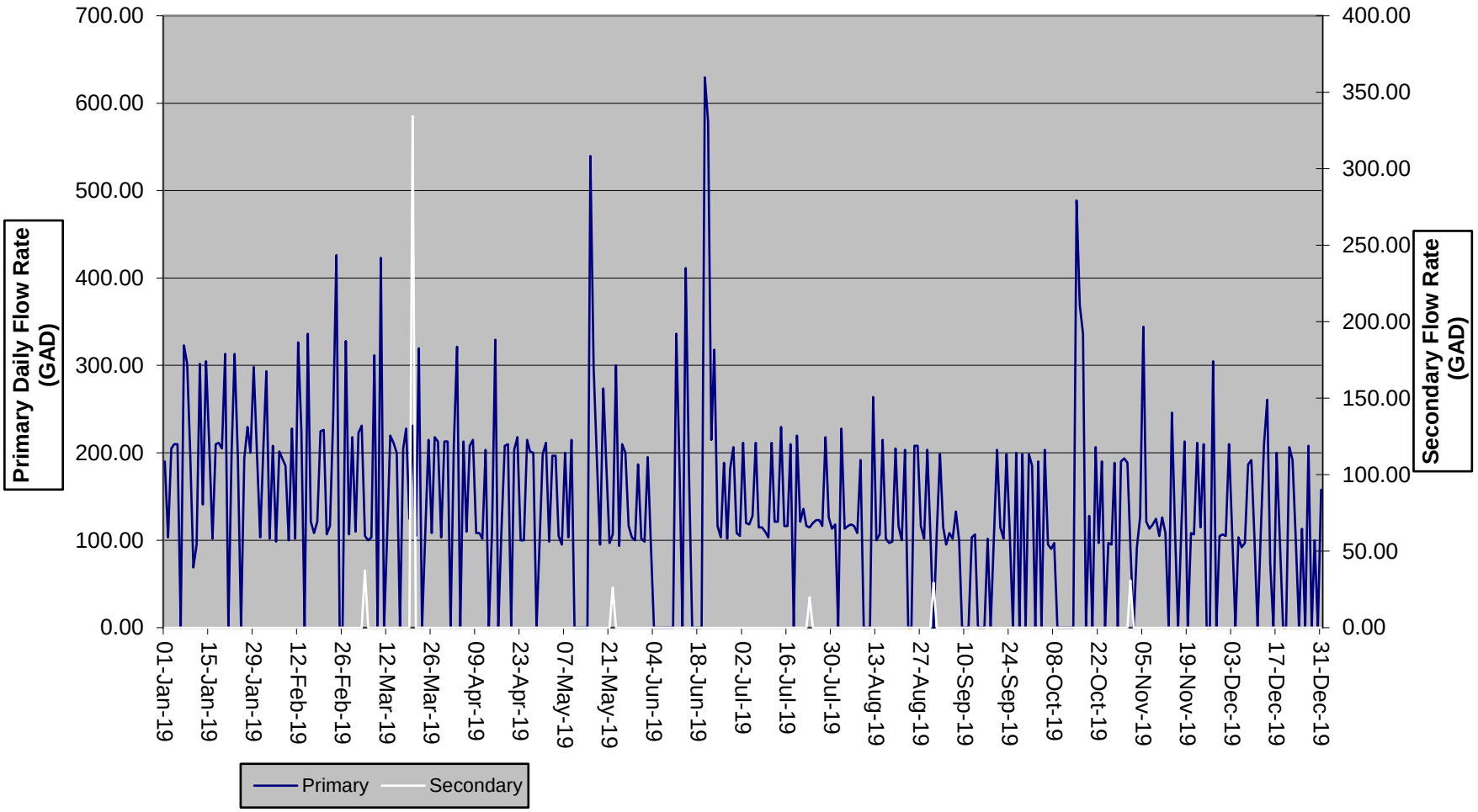
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 11, CELL A



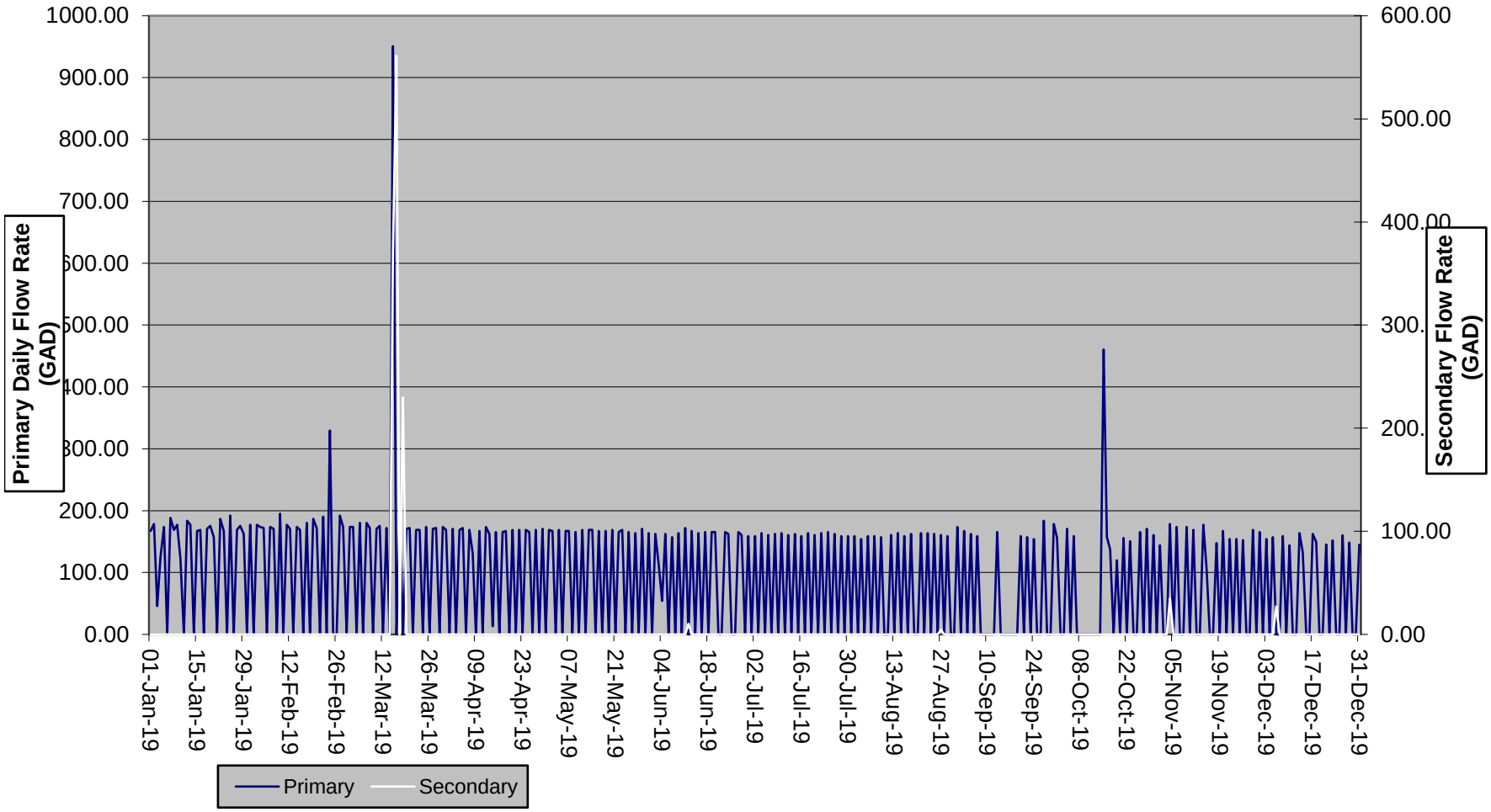
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 11, CELL B



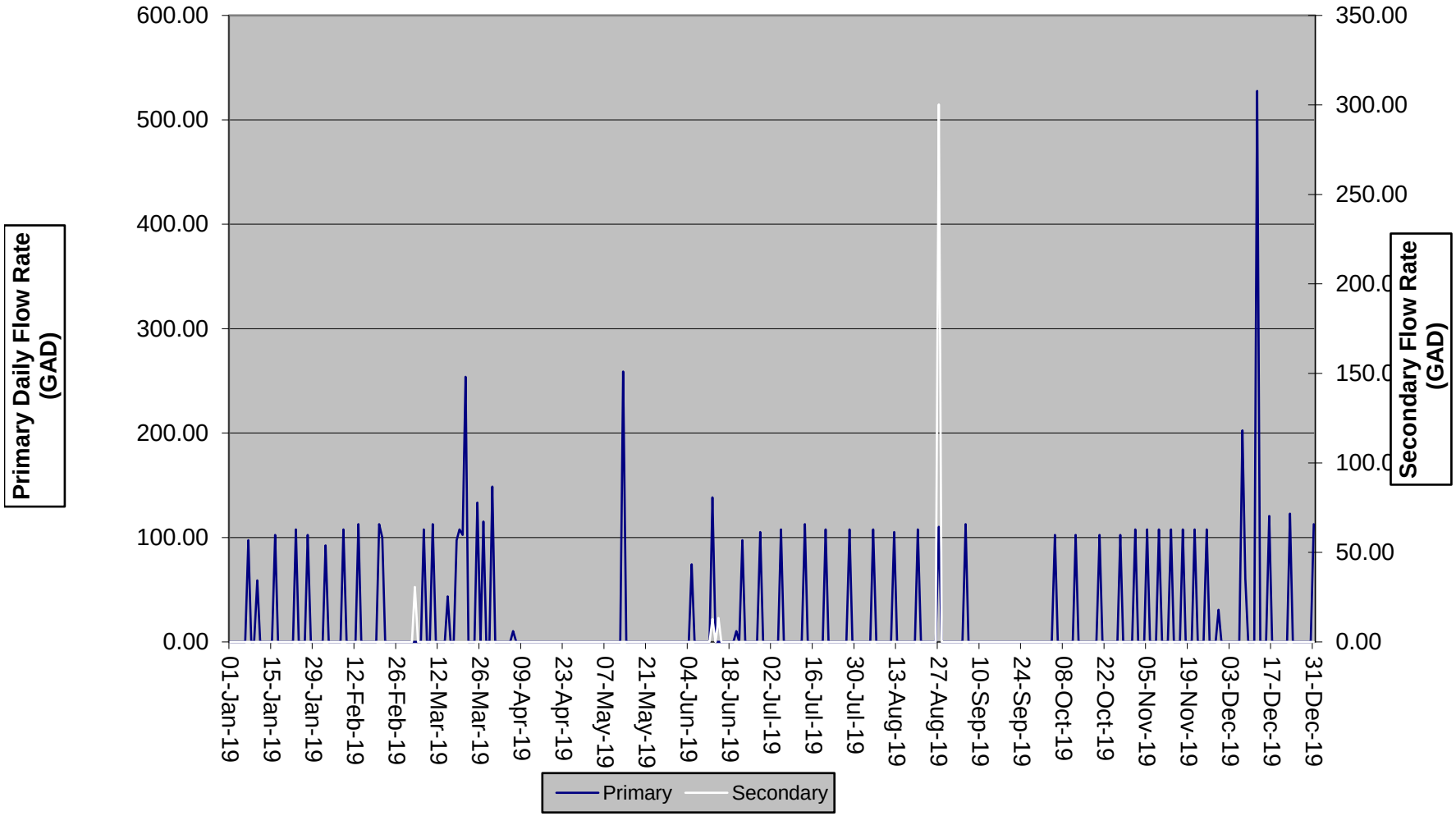
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 11, CELL C



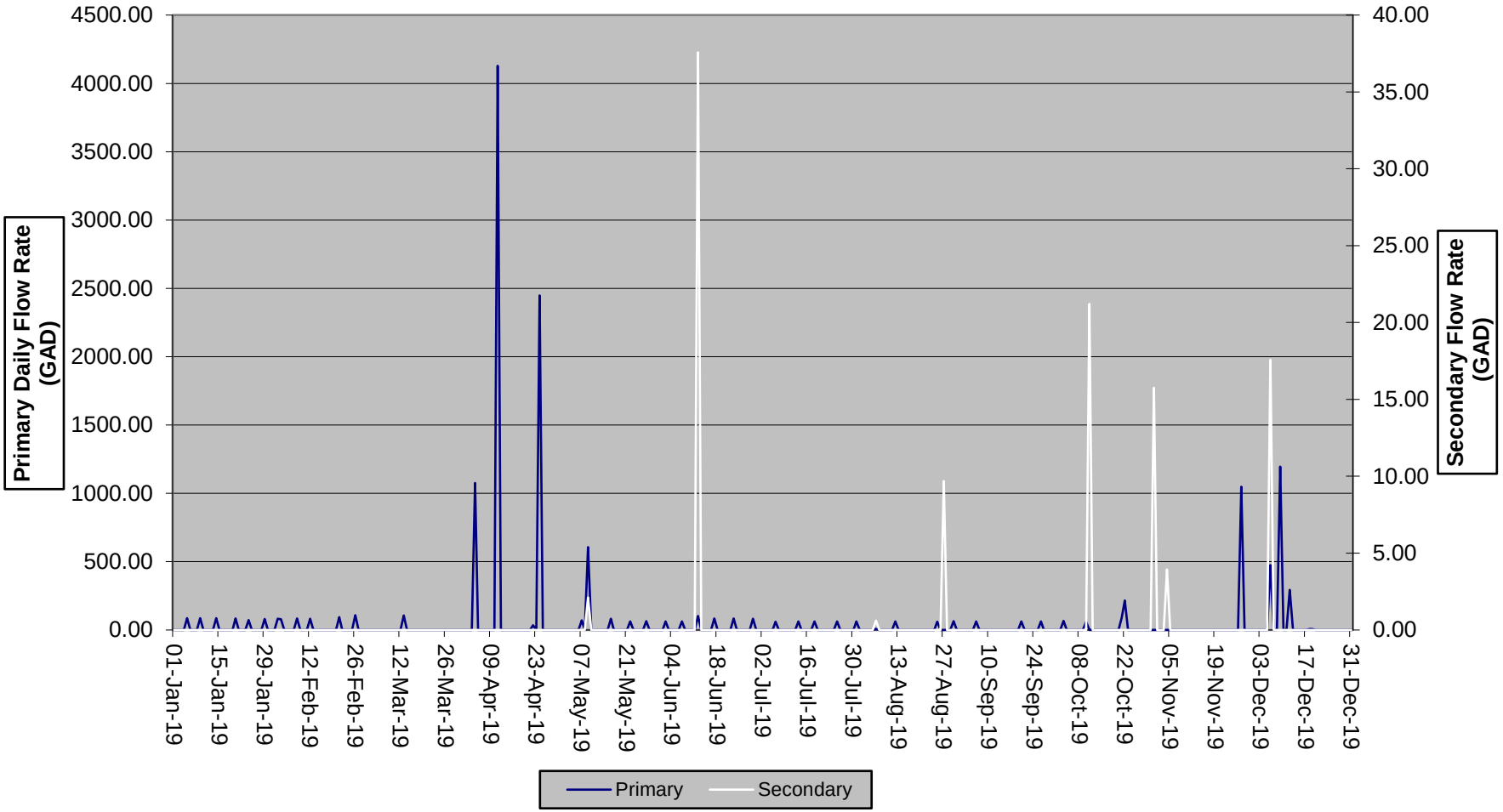
LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 12, CELL A



LIQUID FLOW IN PRIMARY AND SECONDARY LCS

PHASE 12, CELL B



APPENDIX D

Monitoring Well Integrity Survey Forms

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. TOTMAN
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 6/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?		X		
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?		X		

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 101C
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 104C
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/10/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?		X		
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?		X		

Comments: Shares same outer casing as 104D

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 104D
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?		X		
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?		X		

Comments: Shares same outer casing as 104C

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 106CR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 106DR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 106WR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 107BR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments: The PVC can be moved from side to side. Filling material not observed inside metal casing.

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 107CR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 310AW
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 6/14/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?		X		

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 310C
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 6/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?		X		

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 310D
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?		X		
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?		X		
18. Is the locking cap free of rust?	X			

Comments: The steel well casing is very rusty. Standing water was observed inside the metal well casing. The cap is not covering the PVC, and is located a few inches above well. Wiring to the pump is located outside the PVC. *Slash/hole near bottom (2016).

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 617A
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?		X		
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 617C
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 618AR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?		X		
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?		X		
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments: *The intake on field sheet is not accurate and is deeper than 12.80 as purged static was below intake (2016)

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 618CR
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?		X		
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 620A
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/16/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?		X		
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 620C
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/16/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 624B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 6/14/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?		X		
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 626B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 627A
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 628A
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?			X	
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?		X		
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 629B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/14/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments: Air bubbles coming through tubing, possible leak in tubing

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 629E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/14/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 630B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/16/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?	X			
a. How many? 1 rock				
b. Are the posts painted or flagged?		X		
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 630E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/14/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?	X			
a. How many? 1 rock				
b. Are the posts painted or flagged?		X		
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 1008BR2
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/22/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 1008ER2
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/22/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?		X		
13. Is the surface seal void of differential erosion around and under the base?		X		
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 1040B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?		X		
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 1041B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?		X		
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments: *Unable to measure static level due to steel casing being on drastic angle. Ran the water at historical flow rate when there was no draw down. (2016, 2017, 2018, 2019)

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. 1134B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/13/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W9-1E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/10/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X	X	
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments: Fox hole located 1ft from well. *Mounded dirt has covered up outside label. (2016)

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W9-2E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/10/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-1B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/16/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-1ER
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?		X		
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-2E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-3E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?		X		
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-4E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many? _____				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
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CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-5B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-5E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/20/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
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Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W11-6E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/3/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?		X		
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-1B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-1E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 6/7/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-2E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/4/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?		X		
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-3E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 6/7/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-4B
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/22/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-4E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Agustin Loureiro**
Evaluation Date: 5/22/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?			X	
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X	X		
12. Is the casing secure (attempt to move along two perpendicular axes)?		X		
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?		X		
17. Is the cap void of large gaps which breach security?	X			
18. Is the locking cap free of rust?	X			

Comments:

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

Waste Management, Inc.
MONITORING WELL INTEGRITY FIELD SURVEY

WMNA Well I.D. W12-5E
Permit Well I.D.

Facility Name: **Crossroads Landfill Norridgewock, ME**
Evaluator: **Nick Adams**
Evaluation Date: 5/21/2019

	Y	N	NA	CARS
LOCATION				
1. Is the well location appropriately shown on a facility permit and/or design drawing?	X			
2. Are the wells in hard to find areas adequately flagged?	X			
3. Is the well elevation information correct?			X	
WELL CHARACTERISTICS & INTEGRITY				
4. Is the well [X] Aboveground? [ ] Flush with the surface?				
5. No physical damage to wells?	X			
6. Is the well labeled on the outside?	X			
7. Is the well labeled on the inside?	X			
8. Does the well have protective posts?		X		
a. How many?				
b. Are the posts painted or flagged?			X	
9. Are the wells in or near a low point?	X			
a. No evidence of ponded water around the well?	X			
10. Do aboveground wells have weep holes at the base of the protective casing?	X			
11. Does the area around the well appear clean (i.e., no mounds of waste; no dead animals)?	X			
12. Is the casing secure (attempt to move along two perpendicular axes)?	X			
13. Is the surface seal void of differential erosion around and under the base?	X			
14. Is the surface seal free of cracks?	X			
15. Is the surface seal sloped to prevent ponding in the immediate vicinity of the surface seal?	X			
16. Is the monitoring well locked to prevent unauthorized access?	X			
17. Is the cap void of large gaps which breach security?		X		
18. Is the locking cap free of rust?		X		

Comments: *Well cap is not secure. (2016)

NOTE:
Response box legend:
Y=YES
N=NO [A negative response must be identified as an "A" unless a comment is made that demonstrates compliance]
NA=Not Applicable
CARS=Compliance Action Reporting System

APPENDIX E

Surface Water Sampling Location Inspection Forms

Location **SW-101** Date 5/15/2019 Sampler Nick Adams
Temp. 80 Weather Sunny

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location **SW-102** Date 5/15/2019 Sampler Nick Adams
Temp. 80 Weather Sunny

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	Sticks/damming	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location **SW-201** Date 5/15/2019 Sampler Nick Adams
Temp. 80 Weather Sunny

		Comments
1. Is location easy to access?	Yes	Stake under water
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location **SW-203** Date 5/15/2019 Sampler Nick Adams
Temp. 80 Weather Sunny

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location	**SW-204**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location	**SW-801**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location	**SW-9**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	Stake out of water
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location	**SW-A**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	No	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	Yes	No real channel at low water levels
5. Note changes in water color or sediment load?	No	

Location	**SW-B**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	No	
3. Is flow obstructed?	Sticks/damming	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

Location	**SW-C**	Date	5/15/2019	Sampler	Nick Adams
Temp.	80	Weather	Sunny		

		Comments
1. Is location easy to access?	Yes	
2. Is location labeled sufficiently?	Yes	
3. Is flow obstructed?	No	See flow measurements
4. Is there evidence of significant erosion or changes in the stream channel?	No	
5. Note changes in water color or sediment load?	No	

APPENDIX F

Field Duplicate Analysis

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			620A	DUP-GW-01		
Sample Date: 5/16/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.009	mg/L	ND	ND	NC	NC
Barium(1)	0.005	mg/L	0.035	0.024	0.030	37
Calcium	0.15	mg/L	18	19	19	5.4
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron(1)	0.030	mg/L	0.048	0.11	0.08	78
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	18	19	19	5.4
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	1.4	1.5	1.5	6.9
Sodium	0.40	mg/L	11	12	12	8.7
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	10	mg/L	120	120	120	0.0
Ammonia as N	0.020	mg/L as N	0.09	ND	NC	NC
Nitrate(1)	0.050	mg/L as N	0.092	0.12	0.11	26
Chemical Oxygen Demand	10.000	mg/L	ND	ND	NC	NC
Sulfate	5.0	mg/L	16	16	16	0.0
Chloride	0.50	mg/L	4.4	5.6	5.0	24
Total Dissolved Solids	5.0	mg/L	170	77	124	75
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	1.8	1.8	NC	NC
Temperature		Degrees C	10.4	10.4	NC	NC
Field pH		SU	6.75	6.75	NC	NC
Specific Conductance		umhos/cm	293	293	NC	NC
Field ORP		millivolts	127.3	127.3	NC	NC
Oxygen, Dissolved		mg/L	3.2	3.2	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			W11-1ER	DUP-GW-02		
Sample Date: 5/21/2019						
Total Metals						
Aluminum[(1)]	0.25	mg/L	0.82	0.66	0.74	22
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Barium	0.0050	mg/L	0.016	0.016	0.016	0.0
Calcium	0.15	mg/L	14	14	14	0.0
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	0.59	0.65	0.62	10
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	17	17	17	0.0
Manganese	0.010	mg/L	0.46	0.44	0.45	4.4
Potassium	0.20	mg/L	1.5	1.5	1.5	0.0
Sodium	0.40	mg/L	10	9.8	10	2.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	130	120	125	8.00
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride	0.50	mg/L	3.0	2.8	2.9	6.9
Total Dissolved Solids	5.0	mg/L	130	120	125	8.00
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	1.9	1.9	NC	NC
Temperature		Degrees C	14.2	14.2	NC	NC
Field pH		SU	6.61	6.61	NC	NC
Specific Conductance		umhos/cm	264	264	NC	NC
Field ORP		millivolts	118.6	118.3	NC	NC
Oxygen, Dissolved		mg/L	2.0	2.0	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			1008BR2	DUP-GW-03		
Sample Date: 5/22/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Barium	0.0050	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	19	19	19	0.0
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	2.1	2.2	2.2	4.7
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	1.7	1.7	1.7	0.0
Sodium	0.40	mg/L	3.7	3.7	3.7	0.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	60	60	60	0.0
Ammonia as N	0.020	mg/L as N	0.071	ND	NC	NC
Nitrate	0.050	mg/L as N	0.19	0.18	0.19	5.4
Chemical Oxygen Demand	10	mg/L	39	ND	NC	NC
Sulfate[(1)]	5.0	mg/L	7.0	7.8	7.4	10.8
Chloride	0.50	mg/L	1.8	1.9	1.9	5.4
Total Dissolved Solids	5.0	mg/L	38	68	53	57
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	0.0	0.0	NC	NC
Temperature		Degrees C	10.2	10.3	NC	NC
Field pH		SU	7.88	6.76	NC	NC
Specific Conductance		umhos/cm	162	558	NC	NC
Field ORP		millivolts	43.6	40.5	NC	NC
Oxygen, Dissolved		mg/L	5.9	2.4	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			W12-3E	DUP-GW-04		
Sample Date: 6/7/19						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Barium	0.0050	mg/L	0.0051	0.0054	0.0053	5.7
Calcium	0.15	mg/L	47	48	48	2.1
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	14	15	15	6.9
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	1.4	1.4	1.4	0.0
Sodium	0.40	mg/L	4.5	4.6	4.6	2.2
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	190	190	190	0.0
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	0.17	0.17	0.17	0.0
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride(1)	0.50	mg/L	1.0	1.4	1.2	33
Total Dissolved Solids	5.0	mg/L	180	190	185	5.41
Total Organic Carbon(1)	1.0	mg/L	1.5	1.2	1.4	22
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	0.0	0.0	NC	NC
Temperature		Degrees C	11.4	11.4	NC	NC
Field pH		SU	6.62	6.62	NC	NC
Specific Conductance		umhos/cm	329	329	NC	NC
Field ORP		millivolts	93.9	93.9	NC	NC
Oxygen, Dissolved		mg/L	1.9	1.9	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			SW-102	DUP-SW-01		
Sample Date: 5/15/2019						
Total Metals						
Aluminum	0.080	mg/L	0.12	0.13	0.13	8.0
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Barium	0.0050	mg/L	0.0069	0.0068	0.0069	1.5
Calcium	0.15	mg/L	6.4	6.3	6.4	1.6
Copper	0.0020	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	0.20	0.20	0.20	0.0
Lead	0.00040	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	1.2	1.1	1.2	8.7
Manganese	0.010	mg/L	0.012	0.012	0.012	0.0
Potassium	0.20	mg/L	0.57	0.58	0.58	1.7
Sodium	0.40	mg/L	13	12	13	8.0
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	10	mg/L	13	13	13	0.0
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Chemical Oxygen Demand	10	mg/L	29	27	28	7.1
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride	0.50	mg/L	26	26	26	0.0
Total Dissolved Solids	5.0	mg/L	60	62	61	3.3
Biological Oxygen Demand	2.0	mg/L	ND	ND	NC	NC
Total Organic Carbon	1.0	mg/L	6.2	6.4	6.3	3.2
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	1.6	1.6	NC	NC
Temperature		Degrees C	12.2	12.2	NC	NC
Field pH		SU	6.41	6.41	NC	NC
Specific Conductance		umhos/cm	147	147	NC	NC
Field ORP		ft/msl	122.5	122.5	NC	NC
Oxygen, Dissolved		mg/L	10	10	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Prepared by: TK
Checked by: DFSC
Reviewed by: APTM

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			104D	DUP-GW-01		
Sample Date: 08/07/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.009	mg/L	ND	ND	NC	NC
Barium	0.005	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	4	4	4	0
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	0.5	0.5	0.5	1.9
Manganese	0.010	mg/L	0.012	0.012	0.0	0.0
Potassium	0.20	mg/L	1.1	1.1	1.1	0.0
Sodium	0.40	mg/L	36	36	36	0.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	80	80	80	0.0
Ammonia as N[(1)]	0.020	mg/L as N	0.092	0.11	0.10	18
Nitrate[(1)]	0.050	mg/L as N	0.062	0.099	0.081	46
Sulfate	5.0	mg/L	13	13	13	0.0
Chloride[(1)]	0.50	mg/L	1.0	1.5	1.2	41
Total Dissolved Solids	5.0	mg/L	90	100	95	10.5
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	2.5	2.5	NC	NC
Temperature		Degrees C	24.5	24.5	NC	NC
Field pH		SU	8.44	8.44	NC	NC
Specific Conductance		umhos/cm	191	191	NC	NC
Field ORP		millivolts	-189.8	-189.8	NC	NC
Oxygen, Dissolved		mg/L	8.3	8.3	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits, therefore, are required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			629B	DUP-GW-02		
Sample Date: 08/08/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic(1)	0.0090	mg/L	0.014	0.010	0.012	33
Barium	0.0050	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	19	15	17	24
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	3.4	2.7	3.1	23
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	2.0	1.6	1.8	22
Sodium	0.40	mg/L	5.7	4.5	5.1	24
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	10	mg/L	93	68	81	31
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Chemical Oxygen Demand	10	mg/L	ND	ND	NC	NC
Sulfate(1)	5.0	mg/L	28	14	21	67
Chloride(1)	0.50	mg/L	8.7	2.2	5.5	119
Total Dissolved Solids	5.0	mg/L	71	74	73	4.1
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	7.5	7.5	NC	NC
Temperature		Degrees C	16.2	16.2	NC	NC
Field pH		SU	7.80	7.80	NC	NC
Specific Conductance		umhos/cm	162	162	NC	NC
Field ORP		millivolts	4.5	4.5	NC	NC
Oxygen, Dissolved		mg/L	2.4	2.4	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits, therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			617C	DUP-GW-03		
Sample Date: 08/20/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	0.39	NC	NC
Arsenic	0.0090	mg/L	ND	0.016	NC	NC
Barium	0.0050	mg/L	0.010	ND	NC	NC
Calcium	0.15	mg/L	18	14	16	25
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	0.38	0.18	0.28	71
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	15	3.2	9.1	130
Manganese	0.010	mg/L	0.057	ND	NC	NC
Potassium	0.20	mg/L	1.9	2.1	2.0	10
Sodium	0.40	mg/L	26	36	31	32
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total[(1)]	20	mg/L	130	100	115	26.1
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Sulfate[(1)]	5.0	mg/L	24	10	17	82
Chloride	0.50	mg/L	2.9	3.0	3.0	3.4
Total Dissolved Solids	5.0	mg/L	170	150	160	13
Total Organic Carbon	1.0	mg/L	1	ND	NC	NC
Total Suspended Solids[(1)]	4.0	mg/L	5.6	6.8	6.2	19.4
Field Parameters						
Turbidity		NTU	2.9	2.9	NC	NC
Temperature		Degrees C	18.4	18.4	NC	NC
Field pH		SU	7.39	7.39	NC	NC
Specific Conductance		umhos/cm	265	265	NC	NC
Field ORP		millivolts	18.6	18.6	NC	NC
Oxygen, Dissolved		mg/L	0.4	0.4	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits, therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			310D	DUP-GW-04		
Sample Date: 08/21/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.0090	mg/L	0.009	ND	NC	NC
Barium	0.0050	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	19.0	18.0	18.5	5.41
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron(1)	0.030	mg/L	0.067	0.045	0.056	39
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	2.1	2.0	2.1	4.9
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	1.9	1.9	1.9	0.0
Sodium	0.40	mg/L	8.0	7.7	7.9	3.8
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	40	mg/L	64	65	65	1.6
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	0.15	0.14	0.15	6.9
Sulfate	5.0	mg/L	8	8	8	0
Chloride(1)	0.50	mg/L	2.9	3.3	3.1	12.9
Total Dissolved Solids	5.0	mg/L	69	110	90	46
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	0.0	0.0	NC	NC
Temperature		Degrees C	18.1	18.1	NC	NC
Field pH		SU	7.65	7.65	NC	NC
Specific Conductance		umhos/cm	172	172	NC	NC
Field ORP		millivolts	114.0	114.0	NC	NC
Oxygen, Dissolved		mg/L	10.1	10.1	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits, therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			SW-204	DUP-SW-01		
Sample Date: 08/22/2019						
Total Metals						
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	11.0	9.9	10.5	10.5
Iron	0.030	mg/L	0.49	0.46	0.48	6.3
Lead	0.00040	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	1.80	1.70	1.75	5.7
Manganese	0.010	mg/L	0.058	0.055	0.057	5
Potassium	0.20	mg/L	1.3	1.2	1.25	8.0
Sodium	0.40	mg/L	4.0	3.8	3.9	5.1
General Chemistry Parameters						
Alkalinity, Total	10	mg/L	22	23	23	4.4
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	0.07	0.07	0.072	5.6
Chemical Oxygen Demand	10	mg/L	43	39	41	10
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride	0.50	mg/L	6	6.2	6.2	1.6
Total Dissolved Solids	5.0	mg/L	87	90	89	3.4
Total Organic Carbon	1.0	mg/L	16	16.0	16.0	0.0
Total Suspended Solids	4.0	mg/L	5.2	ND	NC	NC
Field Parameters						
Turbidity		NTU	3.3	3.3	NC	NC
Temperature		Degrees C	23.0	23.0	NC	NC
Field pH		SU	5.97	5.97	NC	NC
Specific Conductance		umhos/cm	79	79	NC	NC
Field ORP		millivolts	180.5	180.5	NC	NC
Oxygen, Dissolved		mg/L	7.7	7.7	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits and/or the absolute difference is less than two times their respective reporting limits; therefore, are not required to be reported.
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Prepared by: TK
Checked by: KNG
Reviewed by: APTM

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			106WR	DUP-GW-01		
Sample Date: 11/12/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.009	mg/L	ND	ND	NC	NC
Barium	0.005	mg/L	0.0060	0.0056	0.0058	6.9
Calcium	0.15	mg/L	47	46	47	2.2
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	0.32	0.24	0.28	29
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	6.1	6.0	6.1	1.7
Manganese	0.010	mg/L	ND	1.6	NC	NC
Potassium	0.20	mg/L	3.0	2.9	3.0	3.4
Sodium	0.40	mg/L	2.3	2.3	2.3	0.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	140	130	135	7.41
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	0.22	0.22	0.22	0.0
Sulfate[(1)]	5.0	mg/L	14	12	13	15
Chloride	0.50	mg/L	0.80	0.85	0.83	6.1
Total Dissolved Solids	5.0	mg/L	180	100	140	57.1
Total Organic Carbon[(1)]	1.0	mg/L	1.6	1.3	1.5	21
Total Suspended Solids	4.0	mg/L	ND	5.6	NC	NC
Field Parameters						
Turbidity		NTU	8.7	8.7	NC	NC
Temperature		Degrees C	11.7	11.7	NC	NC
Field pH		SU	6.17	6.17	NC	NC
Specific Conductance		umhos/cm	300	300	NC	NC
Field ORP		millivolts	171.2	171.2	NC	NC
Oxygen, Dissolved		mg/L	6.8	6.8	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			W12-1B	DUP-GW-02		
Sample Date: 11/13/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.0090	mg/L	0.012	0.011	0.012	8.7
Barium	0.0050	mg/L	0.0054	0.0052	0.0053	3.8
Calcium	0.15	mg/L	31	30	31	3.3
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	5.7	5.5	5.6	3.6
Manganese	0.010	mg/L	0.077	0.075	0.076	2.6
Potassium	0.20	mg/L	4.4	4.2	4.3	4.7
Sodium	0.40	mg/L	3.5	3.5	3.5	0.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	100	98	99	2.0
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Sulfate[(1)]	5.0	mg/L	5.5	11.0	8.3	67
Chloride	0.50	mg/L	2.0	2.0	2.0	0.0
Total Dissolved Solids	5.0	mg/L	150	190	170	23.5
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	0.0	0.0	NC	NC
Temperature		Degrees C	7.9	7.9	NC	NC
Field pH		SU	8.16	8.16	NC	NC
Specific Conductance		umhos/cm	224	224	NC	NC
Field ORP		millivolts	222.6	222.6	NC	NC
Oxygen, Dissolved		mg/L	0.3	0.3	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			617C	DUP-GW-03		
Sample Date: 11/18/2019						
Total Metals						
Aluminum	0.25	mg/L	0.43	0.47	0.5	8.9
Arsenic	0.0090	mg/L	0.015	0.014	0.015	6.9
Barium	0.0050	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	15	15	15	0.0
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron(1)	0.030	mg/L	0.26	0.25	0.26	3.9
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	3.3	3.2	3.3	3.1
Manganese	0.010	mg/L	ND	ND	NC	NC
Potassium	0.20	mg/L	2.4	2.3	2.4	4.3
Sodium	0.40	mg/L	38	37	38	2.7
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	130	160	145	20.7
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Sulfate(1)	5.0	mg/L	12	16	14	29
Chloride	0.50	mg/L	3.4	3.9	3.7	14
Total Dissolved Solids	5.0	mg/L	120	140	130	15.4
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	4.4	4.8	4.6	8.7
Field Parameters						
Turbidity		NTU	4.5	4.5	NC	NC
Temperature		Degrees C	7.00	7.00	NC	NC
Field pH		SU	7.54	7.54	NC	NC
Specific Conductance		umhos/cm	240	240	NC	NC
Field ORP		millivolts	-141.7	-141.7	NC	NC
Oxygen, Dissolved		mg/L	0.9	0.9	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			W11-1B	DUP-GW-04		
Sample Date: 12/10/2019						
Total Metals						
Aluminum	0.25	mg/L	ND	ND	NC	NC
Arsenic	0.0090	mg/L	0.030	0.029	0.030	3.4
Barium	0.0050	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	14.0	14.0	14.0	0.0
Chromium	0.010	mg/L	ND	ND	NC	NC
Copper	0.025	mg/L	ND	ND	NC	NC
Iron	0.030	mg/L	ND	ND	NC	NC
Lead	0.0050	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	5.8	5.8	5.8	0.0
Manganese	0.010	mg/L	0.017	0.018	0.02	5.7
Potassium	0.20	mg/L	1.6	1.6	1.6	0.0
Sodium	0.40	mg/L	7.8	7.8	8	0.0
Vanadium	0.025	mg/L	ND	ND	NC	NC
Zinc	0.020	mg/L	ND	ND	NC	NC
General Chemistry Parameters						
Alkalinity, Total	20	mg/L	76	81	79	6.4
Ammonia as N[(1)]	0.020	mg/L as N	0.069	0.061	0.065	12.3
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride[(1)]	0.50	mg/L	0.53	0.64	0.6	18.8
Total Dissolved Solids[(1)]	5.0	mg/L	92	15	54	143.9
Total Organic Carbon	1.0	mg/L	ND	ND	NC	NC
Total Suspended Solids	4.0	mg/L	ND	ND	NC	NC
Field Parameters						
Turbidity		NTU	0.1	0.1	NC	NC
Temperature		Degrees C	9	9	NC	NC
Field pH		SU	7.21	7.21	NC	NC
Specific Conductance		umhos/cm	153	153	NC	NC
Field ORP		millivolts	-195.0	-195.0	NC	NC
Oxygen, Dissolved		mg/L	1.3	1.3	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Appendix F
WMDSM CROSSROADS LANDFILL
FIELD DUPLICATE ANALYSIS

Analyte	Reporting Limits	Units	Concentration		Mean	RPD (%)
			Sample ID	Duplicate ID		
			SW-102	DUP-SW-01		
Sample Date: 11/18/2019						
Total Metals						
Arsenic	0.0090	mg/L	ND	ND	NC	NC
Calcium	0.15	mg/L	8.4	8.4	8	0.0
Iron	0.030	mg/L	0.27	0.30	0.29	10.5
Lead	0.00040	mg/L	ND	ND	NC	NC
Magnesium	0.24	mg/L	1.5	1.5	1.50	0.0
Manganese(1)	0.010	mg/L	0.027	0.027	0.027	0.0
Potassium	0.20	mg/L	0.66	0.66	0.66	0.0
Sodium	0.40	mg/L	12.0	12.0	12.0	0.0
General Chemistry Parameters						
Alkalinity, Total(1)	10	mg/L	33	29	31	12.9
Ammonia as N	0.020	mg/L as N	ND	ND	NC	NC
Nitrate	0.050	mg/L as N	ND	ND	NC	NC
Chemical Oxygen Demand(1)	10	mg/L	21	20	21	4.9
Sulfate	5.0	mg/L	ND	ND	NC	NC
Chloride	0.50	mg/L	22	22	22	0.0
Total Dissolved Solids	5.0	mg/L	69	48	59	36
Total Organic Carbon	1.0	mg/L	7.4	7.3	7.4	1.4
Total Suspended Solids(1)	4.0	mg/L	60	5.2	33	168
Field Parameters						
Turbidity		NTU	0.8	0.8	NC	NC
Temperature		Degrees C	3.8	3.8	NC	NC
Field pH		SU	6.68	6.68	NC	NC
Specific Conductance		umhos/cm	165	165	NC	NC
Field ORP		ft/msl	183.0	183.0	NC	NC
Oxygen, Dissolved		mg/L	14.8	14.8	NC	NC

Notes:
(1) The calculated RPD for this analyte is above 10%; however, the concentrations detected for both the primary and the duplicate samples are not greater than five times their respective reporting limits; therefore, are not required to be reported
RPD = relative percent difference
NC = not calculated
ND = not detected above laboratory reporting limits
NTU = nephelometric turbidity units
SU = standard units
umhos/cm = micromhos per centimeter
mg/L = milligrams per liter
Eh/ORP= reduction potential/oxidation reduction potential

Prepared by: ALD
Checked by: AMH
Reviewed by: APTM

APPENDIX G

Trip Blank Detection Report

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/13/19 00:00
Date Received: 05/14/19 09:45

Lab Sample ID: 480-153454-8

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/20/19 01:37	1
2-Butanone	ND	U	10		ug/L			05/20/19 01:37	1
2-Hexanone	ND	U	5.0		ug/L			05/20/19 01:37	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/20/19 01:37	1
Acetone	ND	U	10		ug/L			05/20/19 01:37	1
Benzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromodichloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromoform	ND	U	1.0		ug/L			05/20/19 01:37	1
Bromomethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Carbon disulfide	ND	U	1.0		ug/L			05/20/19 01:37	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Chlorobenzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloroethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloroform	ND	U	1.0		ug/L			05/20/19 01:37	1
Chloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:37	1
Dibromochloromethane	ND	U	1.0		ug/L			05/20/19 01:37	1
Ethylbenzene	ND	U	1.0		ug/L			05/20/19 01:37	1
Methylene Chloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Styrene	ND	U	1.0		ug/L			05/20/19 01:37	1
Tetrachloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
Toluene	ND	U	1.0		ug/L			05/20/19 01:37	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/20/19 01:37	1
Trichloroethene	ND	U	1.0		ug/L			05/20/19 01:37	1
Vinyl acetate	ND	U	5.0		ug/L			05/20/19 01:37	1
Vinyl chloride	ND	U	1.0		ug/L			05/20/19 01:37	1
Xylenes, Total	ND	U	2.0		ug/L			05/20/19 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/20/19 01:37*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*05/20/19 01:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/20/19 01:37*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/20/19 01:37*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01
Date Collected: 05/14/19 00:00
Date Received: 05/15/19 10:00

Lab Sample ID: 480-153523-3
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/22/19 13:26	1
2-Butanone	ND	U	10		ug/L			05/22/19 13:26	1
2-Hexanone	ND	U	5.0		ug/L			05/22/19 13:26	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/22/19 13:26	1
Acetone	ND	U	10		ug/L			05/22/19 13:26	1
Benzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromodichloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromoform	ND	U	1.0		ug/L			05/22/19 13:26	1
Bromomethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Carbon disulfide	ND	U	1.0		ug/L			05/22/19 13:26	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Chlorobenzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloroethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloroform	ND	U	1.0		ug/L			05/22/19 13:26	1
Chloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:26	1
Dibromochloromethane	ND	U	1.0		ug/L			05/22/19 13:26	1
Ethylbenzene	ND	U	1.0		ug/L			05/22/19 13:26	1
Methylene Chloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Styrene	ND	U	1.0		ug/L			05/22/19 13:26	1
Tetrachloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
Toluene	ND	U	1.0		ug/L			05/22/19 13:26	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/22/19 13:26	1
Trichloroethene	ND	U	1.0		ug/L			05/22/19 13:26	1
Vinyl acetate	ND	U	5.0		ug/L			05/22/19 13:26	1
Vinyl chloride	ND	U	1.0		ug/L			05/22/19 13:26	1
Xylenes, Total	ND	U	2.0		ug/L			05/22/19 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*05/22/19 13:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/22/19 13:26*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*05/22/19 13:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*05/22/19 13:26*	*1*

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153687-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 07:39	1
2-Butanone	ND	U	10		ug/L			05/24/19 07:39	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 07:39	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 07:39	1
Acetone	ND	U	10		ug/L			05/24/19 07:39	1
Benzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromoform	ND	U	1.0		ug/L			05/24/19 07:39	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 07:39	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloroform	ND	U	1.0		ug/L			05/24/19 07:39	1
Chloromethane	ND	U *	1.0		ug/L			05/24/19 07:39	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:39	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 07:39	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 07:39	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Styrene	ND	U	1.0		ug/L			05/24/19 07:39	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
Toluene	ND	U	1.0		ug/L			05/24/19 07:39	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 07:39	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 07:39	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 07:39	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 07:39	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*05/24/19 07:39*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*			*05/24/19 07:39*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*			*05/24/19 07:39*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*			*05/24/19 07:39*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/16/19 00:00
Date Received: 05/17/19 09:00

Lab Sample ID: 480-153688-3

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/24/19 16:53	1
2-Butanone	ND	U	10		ug/L			05/24/19 16:53	1
2-Hexanone	ND	U	5.0		ug/L			05/24/19 16:53	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/24/19 16:53	1
Acetone	ND	U	10		ug/L			05/24/19 16:53	1
Benzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromodichloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromoform	ND	U	1.0		ug/L			05/24/19 16:53	1
Bromomethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Carbon disulfide	ND	U	1.0		ug/L			05/24/19 16:53	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Chlorobenzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloroethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloroform	ND	U	1.0		ug/L			05/24/19 16:53	1
Chloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:53	1
Dibromochloromethane	ND	U	1.0		ug/L			05/24/19 16:53	1
Ethylbenzene	ND	U	1.0		ug/L			05/24/19 16:53	1
Methylene Chloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Styrene	ND	U	1.0		ug/L			05/24/19 16:53	1
Tetrachloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
Toluene	ND	U	1.0		ug/L			05/24/19 16:53	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/24/19 16:53	1
Trichloroethene	ND	U	1.0		ug/L			05/24/19 16:53	1
Vinyl acetate	ND	U	5.0		ug/L			05/24/19 16:53	1
Vinyl chloride	ND	U	1.0		ug/L			05/24/19 16:53	1
Xylenes, Total	ND	U	2.0		ug/L			05/24/19 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*		*05/24/19 16:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/24/19 16:53*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/24/19 16:53*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/24/19 16:53*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/20/19 00:00
Date Received: 05/21/19 09:30

Lab Sample ID: 480-153786-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/28/19 17:55	1
2-Butanone	ND	U	10		ug/L			05/28/19 17:55	1
2-Hexanone	ND	U	5.0		ug/L			05/28/19 17:55	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/28/19 17:55	1
Acetone	ND	U	10		ug/L			05/28/19 17:55	1
Benzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromodichloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromoform	ND	U	1.0		ug/L			05/28/19 17:55	1
Bromomethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Carbon disulfide	ND	U	1.0		ug/L			05/28/19 17:55	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Chlorobenzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloroethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloroform	ND	U	1.0		ug/L			05/28/19 17:55	1
Chloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 17:55	1
Dibromochloromethane	ND	U	1.0		ug/L			05/28/19 17:55	1
Ethylbenzene	ND	U	1.0		ug/L			05/28/19 17:55	1
Methylene Chloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Styrene	ND	U	1.0		ug/L			05/28/19 17:55	1
Tetrachloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
Toluene	ND	U	1.0		ug/L			05/28/19 17:55	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/28/19 17:55	1
Trichloroethene	ND	U	1.0		ug/L			05/28/19 17:55	1
Vinyl acetate	ND	U	5.0		ug/L			05/28/19 17:55	1
Vinyl chloride	ND	U	1.0		ug/L			05/28/19 17:55	1
Xylenes, Total	ND	U	2.0		ug/L			05/28/19 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/28/19 17:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/28/19 17:55*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/28/19 17:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/28/19 17:55*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann GW

Job ID: 480-152997-1

Client Sample ID: TB-01

Date Collected: 05/21/19 00:00
Date Received: 05/22/19 09:15

Lab Sample ID: 480-153888-5

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/30/19 02:54	1
2-Butanone	ND	U	10		ug/L			05/30/19 02:54	1
2-Hexanone	ND	U	5.0		ug/L			05/30/19 02:54	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/30/19 02:54	1
Acetone	ND	U	10		ug/L			05/30/19 02:54	1
Benzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromodichloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromoform	ND	U	1.0		ug/L			05/30/19 02:54	1
Bromomethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Carbon disulfide	ND	U	1.0		ug/L			05/30/19 02:54	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Chlorobenzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloroethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloroform	ND	U	1.0		ug/L			05/30/19 02:54	1
Chloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:54	1
Dibromochloromethane	ND	U	1.0		ug/L			05/30/19 02:54	1
Ethylbenzene	ND	U	1.0		ug/L			05/30/19 02:54	1
Methylene Chloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Styrene	ND	U	1.0		ug/L			05/30/19 02:54	1
Tetrachloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
Toluene	ND	U	1.0		ug/L			05/30/19 02:54	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/30/19 02:54	1
Trichloroethene	ND	U	1.0		ug/L			05/30/19 02:54	1
Vinyl acetate	ND	U	5.0		ug/L			05/30/19 02:54	1
Vinyl chloride	ND	U	1.0		ug/L			05/30/19 02:54	1
Xylenes, Total	ND	U	2.0		ug/L			05/30/19 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*05/30/19 02:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/30/19 02:54*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/30/19 02:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/30/19 02:54*	*1*

Client Sample ID: TB-01

Date Collected: 05/22/19 00:00
Date Received: 05/23/19 09:30

Lab Sample ID: 480-153929-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,1-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
1,2-Dichloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
1,2-Dichloropropane	ND	U	1.0		ug/L			05/31/19 03:12	1
2-Butanone	ND	U	10		ug/L			05/31/19 03:12	1
2-Hexanone	ND	U	5.0		ug/L			05/31/19 03:12	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			05/31/19 03:12	1
Acetone	ND	U	10		ug/L			05/31/19 03:12	1
Benzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromodichloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromoform	ND	U	1.0		ug/L			05/31/19 03:12	1
Bromomethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Carbon disulfide	ND	U	1.0		ug/L			05/31/19 03:12	1
Carbon tetrachloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Chlorobenzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloroethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloroform	ND	U	1.0		ug/L			05/31/19 03:12	1
Chloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:12	1
Dibromochloromethane	ND	U	1.0		ug/L			05/31/19 03:12	1
Ethylbenzene	ND	U	1.0		ug/L			05/31/19 03:12	1
Methylene Chloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Styrene	ND	U	1.0		ug/L			05/31/19 03:12	1
Tetrachloroethene	ND	U *	1.0		ug/L			05/31/19 03:12	1
Toluene	ND	U	1.0		ug/L			05/31/19 03:12	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			05/31/19 03:12	1
Trichloroethene	ND	U	1.0		ug/L			05/31/19 03:12	1
Vinyl acetate	ND	U	5.0		ug/L			05/31/19 03:12	1
Vinyl chloride	ND	U	1.0		ug/L			05/31/19 03:12	1
Xylenes, Total	ND	U	2.0		ug/L			05/31/19 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*			*05/31/19 03:12*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*			*05/31/19 03:12*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*			*05/31/19 03:12*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*			*05/31/19 03:12*	*1*

Client Sample ID: TB-07

Date Collected: 06/10/19 00:00
Date Received: 06/11/19 09:00

Lab Sample ID: 480-154721-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/11/19 15:31	1
2-Butanone	ND	U *	10		ug/L			06/11/19 15:31	1
2-Hexanone	ND	U	5.0		ug/L			06/11/19 15:31	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/11/19 15:31	1
Acetone	ND	U	10		ug/L			06/11/19 15:31	1
Benzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromodichloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromoform	ND	U	1.0		ug/L			06/11/19 15:31	1
Bromomethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Carbon disulfide	ND	U	1.0		ug/L			06/11/19 15:31	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Chlorobenzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloroethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloroform	ND	U	1.0		ug/L			06/11/19 15:31	1
Chloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:31	1
Dibromochloromethane	ND	U	1.0		ug/L			06/11/19 15:31	1
Ethylbenzene	ND	U	1.0		ug/L			06/11/19 15:31	1
Methylene Chloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Styrene	ND	U	1.0		ug/L			06/11/19 15:31	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/11/19 15:31	1
Toluene	ND	U	1.0		ug/L			06/11/19 15:31	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/11/19 15:31	1
Trichloroethene	ND	U	1.0		ug/L			06/11/19 15:31	1
Vinyl acetate	ND	U	5.0		ug/L			06/11/19 15:31	1
Vinyl chloride	ND	U	1.0		ug/L			06/11/19 15:31	1
Xylenes, Total	ND	U	2.0		ug/L			06/11/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*06/11/19 15:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*			*06/11/19 15:31*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*			*06/11/19 15:31*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*			*06/11/19 15:31*	*1*

Client Sample ID: TB

Date Collected: 06/11/19 00:00
Date Received: 06/12/19 09:00

Lab Sample ID: 480-154771-12

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/13/19 03:49	1
2-Butanone	ND	U	10		ug/L			06/13/19 03:49	1
2-Hexanone	ND	U	5.0		ug/L			06/13/19 03:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/13/19 03:49	1
Acetone	ND	U	10		ug/L			06/13/19 03:49	1
Benzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromoform	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromomethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Carbon disulfide	ND	U	1.0		ug/L			06/13/19 03:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Chlorobenzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Dibromochloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloroethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloroform	ND	U	1.0		ug/L			06/13/19 03:49	1
Chloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Bromodichloromethane	ND	U	1.0		ug/L			06/13/19 03:49	1
Ethylbenzene	ND	U	1.0		ug/L			06/13/19 03:49	1
Methylene Chloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Tetrachloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Toluene	ND	U	1.0		ug/L			06/13/19 03:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 03:49	1
Trichloroethene	ND	U	1.0		ug/L			06/13/19 03:49	1
Vinyl acetate	ND	U	5.0		ug/L			06/13/19 03:49	1
Vinyl chloride	ND	U	1.0		ug/L			06/13/19 03:49	1
Xylenes, Total	ND	U	2.0		ug/L			06/13/19 03:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/13/19 03:49	1
Styrene	ND	U	1.0		ug/L			06/13/19 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*			*06/13/19 03:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*			*06/13/19 03:49*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*			*06/13/19 03:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*			*06/13/19 03:49*	*1*

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154840-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/14/19 04:49	1
2-Butanone	ND	U	10		ug/L			06/14/19 04:49	1
2-Hexanone	ND	U	5.0		ug/L			06/14/19 04:49	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/14/19 04:49	1
Acetone	ND	U	10		ug/L			06/14/19 04:49	1
Benzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromoform	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromomethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Carbon disulfide	ND	U	1.0		ug/L			06/14/19 04:49	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Chlorobenzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Dibromochloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloroethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloroform	ND	U	1.0		ug/L			06/14/19 04:49	1
Chloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Bromodichloromethane	ND	U	1.0		ug/L			06/14/19 04:49	1
Ethylbenzene	ND	U	1.0		ug/L			06/14/19 04:49	1
Methylene Chloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Tetrachloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Toluene	ND	U	1.0		ug/L			06/14/19 04:49	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 04:49	1
Trichloroethene	ND	U	1.0		ug/L			06/14/19 04:49	1
Vinyl acetate	ND	U	5.0		ug/L			06/14/19 04:49	1
Vinyl chloride	ND	U	1.0		ug/L			06/14/19 04:49	1
Xylenes, Total	ND	U	2.0		ug/L			06/14/19 04:49	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 04:49	1
Styrene	ND	U	1.0		ug/L			06/14/19 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*			*06/14/19 04:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*			*06/14/19 04:49*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*			*06/14/19 04:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*			*06/14/19 04:49*	*1*

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154821-4

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/14/19 02:01	1
2-Butanone	ND	U	10		ug/L			06/14/19 02:01	1
2-Hexanone	ND	U	5.0		ug/L			06/14/19 02:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/14/19 02:01	1
Acetone	ND	U	10		ug/L			06/14/19 02:01	1
Benzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromoform	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromomethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Carbon disulfide	ND	U	1.0		ug/L			06/14/19 02:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Chlorobenzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Dibromochloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloroethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloroform	ND	U	1.0		ug/L			06/14/19 02:01	1
Chloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Bromodichloromethane	ND	U	1.0		ug/L			06/14/19 02:01	1
Ethylbenzene	ND	U	1.0		ug/L			06/14/19 02:01	1
Methylene Chloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Tetrachloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Toluene	ND	U	1.0		ug/L			06/14/19 02:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 02:01	1
Trichloroethene	ND	U	1.0		ug/L			06/14/19 02:01	1
Vinyl acetate	ND	U	5.0		ug/L			06/14/19 02:01	1
Vinyl chloride	ND	U	1.0		ug/L			06/14/19 02:01	1
Xylenes, Total	ND	U	2.0		ug/L			06/14/19 02:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/14/19 02:01	1
Styrene	ND	U	1.0		ug/L			06/14/19 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*			*06/14/19 02:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*			*06/14/19 02:01*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*			*06/14/19 02:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*			*06/14/19 02:01*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: TB

Date Collected: 06/12/19 00:00
Date Received: 06/13/19 09:00

Lab Sample ID: 480-154852-7

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/17/19 14:06	1
2-Hexanone	ND	U	5.0		ug/L			06/17/19 14:06	1
2-Butanone	ND	U	10		ug/L			06/17/19 14:06	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/17/19 14:06	1
Acetone	ND	U	10		ug/L			06/17/19 14:06	1
Benzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromodichloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromoform	ND	U	1.0		ug/L			06/17/19 14:06	1
Bromomethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Carbon disulfide	ND	U	1.0		ug/L			06/17/19 14:06	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Chlorobenzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Dibromochloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloroethane	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloroform	ND	U	1.0		ug/L			06/17/19 14:06	1
Chloromethane	ND	U	1.0		ug/L			06/17/19 14:06	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 14:06	1
Ethylbenzene	ND	U	1.0		ug/L			06/17/19 14:06	1
Methylene Chloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Styrene	ND	U	1.0		ug/L			06/17/19 14:06	1
Tetrachloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
Toluene	ND	U	1.0		ug/L			06/17/19 14:06	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/17/19 14:06	1
Trichloroethene	ND	U	1.0		ug/L			06/17/19 14:06	1
Vinyl acetate	ND	U	5.0		ug/L			06/17/19 14:06	1
Vinyl chloride	ND	U	1.0		ug/L			06/17/19 14:06	1
Xylenes, Total	ND	U	2.0		ug/L			06/17/19 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/17/19 14:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/17/19 14:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/17/19 14:06*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/17/19 14:06*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Ann Underdrain

Job ID: 480-154852-1

Client Sample ID: TB

Date Collected: 06/13/19 00:00
Date Received: 06/14/19 09:00

Lab Sample ID: 480-154927-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/19/19 02:58	1
2-Butanone	ND	U	10		ug/L			06/19/19 02:58	1
2-Hexanone	ND	U	5.0		ug/L			06/19/19 02:58	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/19/19 02:58	1
Acetone	ND	U	10		ug/L			06/19/19 02:58	1
Benzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromodichloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromoform	ND	U	1.0		ug/L			06/19/19 02:58	1
Bromomethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Carbon disulfide	ND	U	1.0		ug/L			06/19/19 02:58	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Chlorobenzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloroethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloroform	ND	U	1.0		ug/L			06/19/19 02:58	1
Chloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:58	1
Dibromochloromethane	ND	U	1.0		ug/L			06/19/19 02:58	1
Ethylbenzene	ND	U	1.0		ug/L			06/19/19 02:58	1
Methylene Chloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Styrene	ND	U	1.0		ug/L			06/19/19 02:58	1
Tetrachloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
Toluene	ND	U	1.0		ug/L			06/19/19 02:58	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/19/19 02:58	1
Trichloroethene	ND	U	1.0		ug/L			06/19/19 02:58	1
Vinyl acetate	ND	U	5.0		ug/L			06/19/19 02:58	1
Vinyl chloride	ND	U	1.0		ug/L			06/19/19 02:58	1
Xylenes, Total	ND	U	2.0		ug/L			06/19/19 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*06/19/19 02:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*06/19/19 02:58*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*06/19/19 02:58*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/19/19 02:58*	*1*

Client Sample ID: TB
Lab Sample ID: 480-154925-2

Date Collected: 06/13/19 00:00
Matrix: WQ
Date Received: 06/14/19 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	U	1.0		ug/L			06/18/19 13:50	1
Toluene	ND	U	1.0		ug/L			06/18/19 13:50	1
Xylenes, Total	ND	U	2.0		ug/L			06/18/19 13:50	1
2-Hexanone	ND	U	5.0		ug/L			06/18/19 13:50	1
Acetone	ND	U	10		ug/L			06/18/19 13:50	1
Methyl Ethyl Ketone	ND	U	10		ug/L			06/18/19 13:50	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			06/18/19 13:50	1
Methylene Chloride	ND	U	1.0		ug/L			06/18/19 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*06/18/19 13:50*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/18/19 13:50*	*1*
4-Bromofluorobenzene (Surr)	*77*		*73 - 120*		*06/18/19 13:50*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/18/19 13:50*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-155237-1

Client Sample ID: TB

Date Collected: 06/17/19 00:00
Date Received: 06/18/19 09:00

Lab Sample ID: 480-155237-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1-Dichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,1-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
1,2-Dichloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
1,2-Dichloropropane	ND	U	1.0		ug/L			06/22/19 14:46	1
2-Hexanone	ND	U	5.0		ug/L			06/22/19 14:46	1
2-Butanone	ND	U	10		ug/L			06/22/19 14:46	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			06/22/19 14:46	1
Acetone	ND	U	10		ug/L			06/22/19 14:46	1
Benzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromodichloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromoform	ND	U	1.0		ug/L			06/22/19 14:46	1
Bromomethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Carbon disulfide	ND	U	1.0		ug/L			06/22/19 14:46	1
Carbon tetrachloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Chlorobenzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Dibromochloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloroethane	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloroform	ND	U	1.0		ug/L			06/22/19 14:46	1
Chloromethane	ND	U	1.0		ug/L			06/22/19 14:46	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 14:46	1
Ethylbenzene	ND	U	1.0		ug/L			06/22/19 14:46	1
Methylene Chloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Styrene	ND	U	1.0		ug/L			06/22/19 14:46	1
Tetrachloroethene	ND	U *	1.0		ug/L			06/22/19 14:46	1
Toluene	ND	U	1.0		ug/L			06/22/19 14:46	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			06/22/19 14:46	1
Trichloroethene	ND	U	1.0		ug/L			06/22/19 14:46	1
Vinyl acetate	ND	U	5.0		ug/L			06/22/19 14:46	1
Vinyl chloride	ND	U	1.0		ug/L			06/22/19 14:46	1
Xylenes, Total	ND	U	2.0		ug/L			06/22/19 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*06/22/19 14:46*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/19 14:46*	*1*
4-Bromofluorobenzene (Surr)	*117*		*73 - 120*		*06/22/19 14:46*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*06/22/19 14:46*	*1*

Client: Waste Management
Project/Site: Crossroads ME-SA 8ALC/BLC/CLC

Job ID: 480-158312-1

Client Sample ID: TB
Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158312-4
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1-Dichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,1-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
1,2-Dichloroethane	ND	U	1.0		ug/L			09/09/19 01:02	1
1,2-Dichloropropane	ND	U	1.0		ug/L			09/09/19 01:02	1
2-Hexanone	ND	U	5.0		ug/L			09/09/19 01:02	1
2-Butanone	ND	U	10		ug/L			09/09/19 01:02	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			09/09/19 01:02	1
Acetone	ND	U	10		ug/L			09/09/19 01:02	1
Benzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromodichloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromoform	ND	U	1.0		ug/L			09/09/19 01:02	1
Bromomethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Carbon disulfide	ND	U	1.0		ug/L			09/09/19 01:02	1
Carbon tetrachloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Chlorobenzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Dibromochloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
Chloroethane	ND	U *	1.0		ug/L			09/09/19 01:02	1
Chloroform	ND	U	1.0		ug/L			09/09/19 01:02	1
Chloromethane	ND	U	1.0		ug/L			09/09/19 01:02	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			09/09/19 01:02	1
Ethylbenzene	ND	U	1.0		ug/L			09/09/19 01:02	1
Methylene Chloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Styrene	ND	U	1.0		ug/L			09/09/19 01:02	1
Tetrachloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
Toluene	ND	U	1.0		ug/L			09/09/19 01:02	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			09/09/19 01:02	1
Trichloroethene	ND	U	1.0		ug/L			09/09/19 01:02	1
Vinyl acetate	ND	U	5.0		ug/L			09/09/19 01:02	1
Vinyl chloride	ND	U	1.0		ug/L			09/09/19 01:02	1
Xylenes, Total	ND	U	2.0		ug/L			09/09/19 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/09/19 01:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/09/19 01:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/09/19 01:02*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*09/09/19 01:02*	*1*

Client: Waste Management
Project/Site: Crossroads ME-SA Leachate Tank

Job ID: 480-158313-1

Client Sample ID: TB

Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:15

Lab Sample ID: 480-158313-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			09/09/19 01:50	1
Methyl Ethyl Ketone	ND	U	10		ug/L			09/09/19 01:50	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			09/09/19 01:50	1
Acetone	ND	U	10		ug/L			09/09/19 01:50	1
Benzene	ND	U	1.0		ug/L			09/09/19 01:50	1
Methylene Chloride	**3.9**		1.0		ug/L			09/09/19 01:50	1
Toluene	ND	U	1.0		ug/L			09/09/19 01:50	1
Xylenes, Total	ND	U	2.0		ug/L			09/09/19 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*09/09/19 01:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/09/19 01:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/09/19 01:50*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*09/09/19 01:50*	*1*

Client: Waste Management
Project/Site: Crossroads ME-Wick Drain

Job ID: 480-163035-1

Client Sample ID: TB
Date Collected: 11/20/19 00:00
Date Received: 11/21/19 09:45

Lab Sample ID: 480-163035-2
Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/22/19 02:01	1
2-Hexanone	ND	U	5.0		ug/L			11/22/19 02:01	1
2-Butanone	ND	U	10		ug/L			11/22/19 02:01	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/22/19 02:01	1
Acetone	ND	U	10		ug/L			11/22/19 02:01	1
Benzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromodichloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromoform	ND	U	1.0		ug/L			11/22/19 02:01	1
Bromomethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Carbon disulfide	ND	U	1.0		ug/L			11/22/19 02:01	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Chlorobenzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Dibromochloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloroethane	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloroform	ND	U	1.0		ug/L			11/22/19 02:01	1
Chloromethane	ND	U	1.0		ug/L			11/22/19 02:01	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/22/19 02:01	1
Ethylbenzene	ND	U	1.0		ug/L			11/22/19 02:01	1
Methylene Chloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Styrene	ND	U	1.0		ug/L			11/22/19 02:01	1
Tetrachloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
Toluene	ND	U	1.0		ug/L			11/22/19 02:01	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/22/19 02:01	1
Trichloroethene	ND	U	1.0		ug/L			11/22/19 02:01	1
Vinyl acetate	ND	U	5.0		ug/L			11/22/19 02:01	1
Vinyl chloride	ND	U	1.0		ug/L			11/22/19 02:01	1
Xylenes, Total	ND	U	2.0		ug/L			11/22/19 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*11/22/19 02:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/22/19 02:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*11/22/19 02:01*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/22/19 02:01*	*1*

Client Sample ID: TB
Lab Sample ID: 480-163278-4

Date Collected: 11/25/19 00:00
Matrix: Water
Date Received: 11/26/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1,2,2-Tetrachloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1,2-Trichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1-Dichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,1-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
1,2-Dichloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
1,2-Dichloropropane	ND	U	1.0		ug/L			11/27/19 03:57	1
2-Hexanone	ND	U	5.0		ug/L			11/27/19 03:57	1
2-Butanone	ND	U	10		ug/L			11/27/19 03:57	1
4-Methyl-2-pentanone	ND	U	5.0		ug/L			11/27/19 03:57	1
Acetone	ND	U	10		ug/L			11/27/19 03:57	1
Benzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromodichloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromoform	ND	U	1.0		ug/L			11/27/19 03:57	1
Bromomethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Carbon disulfide	ND	U	1.0		ug/L			11/27/19 03:57	1
Carbon tetrachloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Chlorobenzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Dibromochloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloroethane	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloroform	ND	U	1.0		ug/L			11/27/19 03:57	1
Chloromethane	ND	U	1.0		ug/L			11/27/19 03:57	1
cis-1,2-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
cis-1,3-Dichloropropene	ND	U	1.0		ug/L			11/27/19 03:57	1
Ethylbenzene	ND	U	1.0		ug/L			11/27/19 03:57	1
Methylene Chloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Styrene	ND	U	1.0		ug/L			11/27/19 03:57	1
Tetrachloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
Toluene	ND	U	1.0		ug/L			11/27/19 03:57	1
trans-1,2-Dichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
trans-1,3-Dichloropropene	ND	U	1.0		ug/L			11/27/19 03:57	1
Trichloroethene	ND	U	1.0		ug/L			11/27/19 03:57	1
Vinyl acetate	ND	U	5.0		ug/L			11/27/19 03:57	1
Vinyl chloride	ND	U	1.0		ug/L			11/27/19 03:57	1
Xylenes, Total	ND	U	2.0		ug/L			11/27/19 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/27/19 03:57*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/27/19 03:57*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/27/19 03:57*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/27/19 03:57*	*1*

Client: Waste Management
Project/Site: Crossroads ME: S/A Leachate Tank

Job ID: 480-163981-1

Client Sample ID: TB

Date Collected: 12/10/19 00:00
Date Received: 12/11/19 10:00

Lab Sample ID: 480-163981-2

Matrix: WQ

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	U	5.0		ug/L			12/12/19 18:41	1
Methyl Ethyl Ketone	ND	U	10		ug/L			12/12/19 18:41	1
Methyl isobutyl ketone	ND	U	5.0		ug/L			12/12/19 18:41	1
Acetone	ND	U	10		ug/L			12/12/19 18:41	1
Benzene	ND	U	1.0		ug/L			12/12/19 18:41	1
Methylene Chloride	ND	U	1.0		ug/L			12/12/19 18:41	1
Toluene	ND	U	1.0		ug/L			12/12/19 18:41	1
Xylenes, Total	ND	U	2.0		ug/L			12/12/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/12/19 18:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/12/19 18:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*12/12/19 18:41*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/12/19 18:41*	*1*

APPENDIX H

Historical Data Table

| FRACTION | Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Carbonate | Hardness, Dissolved, Carbonate | Hardness, Total, Carbonate | Hardness, Total, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation Reduction Potential, Field measured | Oxygen Saturation, Percent | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Total as CaCO3 | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia as Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloroform | Chloroform | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Carbonate | Hardness, Total, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Hardness, Calcium Carbonate | Hardness, Calcium Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential, field measured | pH, field measured | pH, field measured | pH, field measured | pH, field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, field measured | Turbidity, field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity, as CaCO3 | Alkalinity, Alkalinity, Alkalinity, Total | Aluminum | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Hardness, Carbonate | Hardness, Hardness, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Acidity, Acidity (as CaCO3) | Alkalinity, Total (as CaCO3) | Alkalinity, Total | Aluminum | Aluminum | Ammonia (as Nitrogen) | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Hardness, Dissolved, Calculated | Hardness, Dissolved, Calculated | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia | Ammonia | Ammonia as Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Carbonate | Hardness, Total, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Total as CaCO3 | N Alkalinity, Total | D Aluminum | T Aluminum | N Ammonia as Nitrogen | T Ammonia as Nitrogen | D Arsenic | T Arsenic | D Barium | T Barium | N Biochemical Oxygen Demand | T Biochemical Oxygen Demand | D Cadmium | T Cadmium | D Calcium | T Calcium | N Chemical Oxygen Demand | T Chemical Oxygen Demand | N Chloride | T Chloride | N Chloroform | T Chloroform | D Chromium | T Chromium | N Coliform | Coliform | Coliform | N Conductivity | T Conductivity | D Copper | T Copper | N Dissolved Oxygen | T Dissolved Oxygen | D Hardness, Calcium Carbonate | T Hardness, Calcium Carbonate | D Iron | T Iron | D Lead | T Lead | D Magnesium | T Magnesium | D Manganese | T Manganese | D Mercury | T Mercury | D Nickel | T Nickel | N Nitrate | T Nitrate | N Nitrite | T Nitrite | Oxidation Reduction Potential, field measured | N Oxidation Reduction Potential | N pH, field measured | SU pH, field measured | pH units | N Phenol | T Phenol | T Phosphorus | D Potassium | T Potassium | D Silver | T Silver | D Sodium | T Sodium | N Sulfate | T Sulfate | N Temperature | T Temperature | D Thallium | T Thallium | Total Dissolved Solids | Total Dissolved Solids | N Total Organic Carbon | T Total Organic Carbon | N Total Suspended Solids | T Total Suspended Solids | N Turbidity | T Turbidity, field measured | N Turbidity, field measured | T Uranium | D Uranium | T Uranium | D Vanadium | T Vanadium | D Zinc | T Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia as Nitrogen | Ammonia as Nitrogen | Arsenic | Arsenic | Arsenic | Barium | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloride | Chloroform | Chloroform | Chloroform | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Conductivity | Copper | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Dissolved Oxygen | Hardness, Hardness, Carbonate | Hardness, Hardness, Carbonate | Hardness, Hardness, Carbonate | Iron | Iron | Iron | Lead | Lead | Lead | Magnesium | Magnesium | Magnesium | Manganese | Manganese | Manganese | Mercury | Mercury | Mercury | Nickel | Nickel | Nickel | Nitrate | Nitrate | Nitrate | Nitrite | Nitrite | Nitrite | Oxidation Reduction Potential, Field measured | Oxidation Reduction Potential, Field measured | Oxidation Reduction Potential, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phenol | Phosphorus | Potassium | Potassium | Potassium | Silver | Silver | Silver | Sodium | Sodium | Sodium | Sulfate | Sulfate | Sulfate | Temperature | Temperature | Temperature | Thallium | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Vanadium | Vanadium | Vanadium | Zinc | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Calculated | Hardness, Total, Calculated | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation Potential, Field measured | Oxidation Potential, Laboratory | pH, Field measured | pH, Field measured | pH, Laboratory | pH, Laboratory | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | N | Alkalinity, Total | D | Aluminum | T | Aluminum | N | Ammonia as Nitrogen | N | Ammonia Nitrogen | D | Arsenic | T | Arsenic | D | Barium | T | Barium | N | Biochemical Oxygen Demand | D | Biochemical Oxygen Demand | D | Cadmium | T | Cadmium | D | Calcium | T | Calcium | N | Chemical Oxygen Demand | D | Chemical Oxygen Demand | N | Chloride | T | Chloride | D | Chromium | T | Chromium | N | Coliform | cfu/100ml | N | Coliform | coli/100ml | T | Coliform | coli/100ml | N | Conductivity | umhos/cm | T | Conductivity | umhos/cm | D | Copper | T | Copper | N | Dissolved Oxygen | D | Hardness, Carbonate | D | Hardness, Carbonate | T | Hardness, Carbonate | D | Iron | T | Iron | D | Lead | T | Lead | D | Magnesium | T | Magnesium | D | Manganese | T | Manganese | D | Mercury | T | Mercury | T | Mercury | D | Nickel | T | Nickel | N | Nitrate | T | Nitrate | N | Nitrite | T | Nitrite | N | Oxidation-Reduction Potential, Field measured | N | Oxidation-Reduction Potential | N | pH, Field measured | SU | pH, field measured | pH units | N | Phenol | T | Phenol | T | Phosphorus | D | Potassium | T | Potassium | D | Silver | T | Silver | D | Sodium | T | Sodium | N | Sulfate | T | Sulfate | N | Temperature | deg C | T | Temperature | D | Thallium | T | Thallium | N | Total Dissolved Solids | N | Total Dissolved Solids | N | Total Organic Carbon | T | Total Organic Carbon | N | Total Suspended Solids | T | Total Suspended Solids | N | Turbidity | ntu | N | Turbidity, Field measured | ntu | T | Turbidity, Field measured | ntu | D | Uranium | T | Uranium | D | Uranium | T | Uranium | D | Vanadium | T | Vanadium | D | Zinc | T | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | N Alkalinity, Total | N Alkalinity, Total | D Aluminum | T Aluminum | T Ammonia (as Nitrogen) | T Ammonia Nitrogen | D Arsenic | T Arsenic | D Barium | T Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | D Cadmium | T Cadmium | D Calcium | T Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | N Chloride | T Chloride | N Chromium | T Chromium | D Chromium | T Chromium | N Coliform | Coliform | N Conductivity | Conductivity | D Copper | T Copper | Dissolved Oxygen | Dissolved Oxygen | D Hardness, Total, Carbonate | T Hardness, Total, Carbonate | D Iron | T Iron | D Lead | T Lead | D Magnesium | T Magnesium | D Manganese | T Manganese | D Mercury | D Mercury | T Mercury | T Mercury | D Nickel | T Nickel | N Nitrate | N Nitrate | N Nitrite | T Nitrite | Oxidation Reduction Potential, Field measured | Oxidation-Reduction Potential | pH, Field measured | pH, Field measured | N Phenol | T Phenol | T Phosphorus | D Potassium | T Potassium | D Silver | T Silver | D Sodium | T Sodium | N Sulfate | T Sulfate | T Temperature | T Temperature | T Thallium | T Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | N Turbidity | N Turbidity, Field measured | T Turbidity, Field measured | T Uranium | T Uranium | T Uranium | T Uranium | N Vanadium | T Vanadium | D Zinc | T Zinc |
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| FRACTION | Alkalinity, Alkalinity, Bicarbonate as CaCO3 | Alkalinity, Total | Aluminum | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloroform | Chloroform | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Hardness, Calcium, Carbonate | Hardness, Magnesium, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Ph, Field measured | pH, field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Hardness, Calcium Carbonate | Hardness, Calcium Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Acidity | Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chromium | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Carbonate | Hardness, Dissolved, Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Ph, Field measured | Ph, Field measured | Ph, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | N-Alkalinity, Total | D-Aluminum | T-Aluminum | D-Ammonia as Nitrogen | T-Ammonia as Nitrogen | D-Arsenic | T-Arsenic | D-Barium | T-Barium | D-Biochemical Oxygen Demand | T-Biochemical Oxygen Demand | D-Cadmium | T-Cadmium | D-Calcium | T-Calcium | D-Chemical Oxygen Demand | T-Chemical Oxygen Demand | D-Chloride | T-Chloride | D-Chloroform | T-Chloroform | D-Chromium | T-Chromium | N-Coliform | N-Coliform | T-Coliform | T-Coliform | N-Conductivity | N-Conductivity | D-Copper | T-Copper | D-Dissolved Oxygen | D-Hardness, Total, Carbonate | T-Hardness, Total, Carbonate | D-Iron | T-Iron | D-Lead | T-Lead | D-Magnesium | D-Manganese | T-Manganese | D-Mercury | T-Mercury | T-Mercury | D-Nickel | T-Nickel | N-Nitrate | T-Nitrate | N-Nitrite | T-Nitrite | Oxidation Reduction Potential, Field measured | N-pH, Field measured | pH, Field measured | T-pH | D-Phenol | T-Phenol | T-Phosphorus | D-Potassium | T-Potassium | D-Silver | T-Silver | D-Sodium | T-Sodium | N-Sulfate | T-Sulfate | N-Temperature | T-Temperature | D-Thallium | T-Thallium | Total Dissolved Solids | Total Dissolved Solids | N-Total Organic Carbon | T-Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | N-Turbidity | N-Turbidity, Field measured | T-Turbidity, Field measured | D-Uranium | T-Uranium | T-Uranium | T-Uranium | D-Vanadium | T-Vanadium | D-Zinc | T-Zinc |
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| FRACTION | Alkalinity, Alkalinity, Bicarbonate as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia | Ammonia | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloride | Chloroform | Chloroform | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Dissolved, Calculated | Hardness, Dissolved, Carbonate | Hardness, Dissolved, Total | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Nitrite | Oxidation-Reduction Potential, Field Measured | Oxidation-Reduction Potential | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Aluminum | Ammonia | Ammonia as Nitrogen | Ammonia as Nitrogen | Arsenic | Arsenic | Arsenic | Barium | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloride | Chloroform | Chloroform | Chloroform | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Conductivity | Copper | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Dissolved Oxygen | Hardness, Hardness, Carbonate | Hardness, Hardness, Carbonate | Hardness, Hardness, Carbonate | Iron | Iron | Iron | Lead | Lead | Lead | Magnesium | Magnesium | Magnesium | Manganese | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nickel | Nitrate | Nitrate | Nitrate | Nitrite | Nitrite | Nitrite | Nitrite | Nitrite | Nitrite | Oxidation-Reduction Potential, Field | Oxidation-Reduction Potential, Field | Oxidation-Reduction Potential, Field | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phenol | Phosphorus | Potassium | Potassium | Potassium | Silver | Silver | Silver | Sodium | Sodium | Sodium | Sulfate | Sulfate | Sulfate | Temperature | Temperature | Temperature | Thallium | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Vanadium | Zinc | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | N-Alkalinity, Total | D-Aluminum | T-Aluminum | N-Ammonia | T-Ammonia | N-Arsenic | D-Arsenic | T-Arsenic | D-Barium | T-Barium | N-Biochemical Oxygen Demand | T-Biochemical Oxygen Demand | D-Cadmium | T-Cadmium | D-Calcium | T-Calcium | N-Chemical Oxygen Demand | T-Chemical Oxygen Demand | N-Chloride | T-Chloride | N-Chloroform | T-Chloroform | D-Chromium | T-Chromium | N-Coliform | T-Coliform | pH | Conductivity | Conductivity | D-Copper | T-Copper | N-Dissolved Oxygen | D-Hardness, Total, Calculated as Carbonate | T-Hardness, Total, Calculated as Carbonate | D-Iron | T-Iron | D-Lead | T-Lead | D-Magnesium | T-Magnesium | D-Manganese | T-Manganese | D-Mercury | T-Mercury | N-Mercury | T-Mercury | D-Nickel | T-Nickel | N-Nitrate | T-Nitrate | N-Nitrite | T-Nitrite | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential, lab | pH, field measured | pH, field measured | pH, lab | pH, lab | N-Phenol | T-Phenol | T-Phosphorus | D-Potassium | T-Potassium | D-Silver | T-Silver | D-Sodium | T-Sodium | N-Sulfate | T-Sulfate | N-Temperature | T-Temperature | D-Thallium | T-Thallium | Total Dissolved Solids | Total Dissolved Solids | N-Total Organic Carbon | T-Total Organic Carbon | N-Total Suspended Solids | T-Total Suspended Solids | N-Turbidity | T-Turbidity, field measured | T-Turbidity, field measured | T-Uranium | T-Uranium | T-Uranium | T-Uranium | N-Vanadium | T-Vanadium | D-Zinc | T-Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity,

| FRACTION | Alkalinity, Alkalinity, Total as CaCO3 | Alkalinity, Alkalinity, Total | Aluminum | Aluminum | Ammonia as Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloroform | Chloroform | Chromium | Chromium | Coliform | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Hardness, Calcium Carbonate | Hardness, Total Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, Field measured | Oxidation-Reduction Potential | pH, Field measured | pH, Field measured | pH, Field measured | pH, Field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, Field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Acidity, Acidity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia | Ammonia Nitrogen | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloroform | Chloroform | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Copper | Copper | Dissolved Oxygen | Hardness, Calcium Carbonate | Hardness, Calcium Carbonate | Iron | Iron | Lead | Lead | Magnesium | Magnesium | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nitrate | Nitrate | Nitrite | Nitrite | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential, field measured | pH, field measured | pH, field measured | pH, field measured | pH, field measured | Phenol | Phenol | Phosphorus | Potassium | Potassium | Silver | Silver | Sodium | Sodium | Sulfate | Sulfate | Temperature | Temperature | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity, field measured | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Aluminum | Ammonia Nitrogen | Ammonia Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Arsenic | Barium | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloride | Chloroform | Chloroform | Chloroform | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Conductivity | Copper | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Dissolved Oxygen | Hardness, Total as Carbonate | Hardness, Total as Carbonate | Hardness, Total as Carbonate | Iron | Iron | Iron | Lead | Lead | Lead | Magnesium | Magnesium | Magnesium | Manganese | Manganese | Manganese | Mercury | Mercury | Mercury | Nickel | Nickel | Nickel | Nitrate | Nitrate | Nitrate | Nitrite | Nitrite | Nitrite | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential, field measured | pH, field measured | pH, field measured | pH, field measured | Phenol | Phenol | Phenol | Phosphorus | Phosphorus | Phosphorus | Potassium | Potassium | Potassium | Silver | Silver | Silver | Sodium | Sodium | Sodium | Sulfate | Sulfate | Sulfate | Temperature | Temperature | Temperature | Thallium | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity | Turbidity | Turbidity, field measured | Turbidity, field measured | Turbidity, field measured | Uranium | Uranium | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Vanadium | Zinc | Zinc | Zinc |
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| FRACTION | Alkalinity, Alkalinity as CaCO3 | Alkalinity, Total | Alkalinity, Total | Aluminum | Aluminum | Ammonia Nitrogen | Ammonia Nitrogen | Arsenic | Arsenic | Arsenic | Barium | Barium | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Biochemical Oxygen Demand | Cadmium | Cadmium | Cadmium | Calcium | Calcium | Calcium | Chemical Oxygen Demand | Chemical Oxygen Demand | Chemical Oxygen Demand | Chloride | Chloride | Chloride | Chloroform | Chloroform | Chloroform | Chromium | Chromium | Chromium | Coliform | Coliform | Coliform | Conductivity | Conductivity | Conductivity | Copper | Copper | Copper | Dissolved Oxygen | Dissolved Oxygen | Dissolved Oxygen | Hardness, Calcium Carbonate | Hardness, Calcium Carbonate | Hardness, Calcium Carbonate | Iron | Iron | Iron | Lead | Lead | Lead | Magnesium | Magnesium | Magnesium | Manganese | Manganese | Manganese | Mercury | Mercury | Mercury | Mercury | Mercury | Mercury | Nickel | Nickel | Nickel | Nitrate | Nitrate | Nitrate | Nitrite | Nitrite | Nitrite | Oxidation-Reduction Potential, field measured | Oxidation-Reduction Potential | Oxidation-Reduction Potential | pH, field measured | pH, field measured | pH, field measured | pH, field measured | pH, field measured | pH, field measured | Phenol | Phenol | Phenol | Phosphorus | Phosphorus | Phosphorus | Potassium | Potassium | Potassium | Silver | Silver | Silver | Sodium | Sodium | Sodium | Sulfate | Sulfate | Sulfate | Temperature | Temperature | Temperature | Thallium | Thallium | Thallium | Total Dissolved Solids | Total Dissolved Solids | Total Dissolved Solids | Total Organic Carbon | Total Organic Carbon | Total Organic Carbon | Total Suspended Solids | Total Suspended Solids | Total Suspended Solids | Turbidity | Turbidity | Turbidity | Turbidity, field measured | Turbidity, field measured | Turbidity, field measured | Uranium | Uranium | Uranium | Uranium | Uranium | Uranium | Vanadium | Vanadium | Vanadium | Zinc | Zinc | Zinc |
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Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-1B																																											
11/5/1998		77		0.096	0.027	0.0072		< 0.005	15.9	< 10	1.4	< 5	< 0.01	< 1	144	< 0.025		0.33	< 0.005	5.7	0.042		< 0.2	< 0.04				8.76	< 1	1.6		10	5.4	8.8		57	< 1	19.5			< 0.025	0.02
12/9/1998		98.9							31.2	< 10	18.2				135			0.21	< 0.005	10	< 0.01							7.93		3		6.3	9	7.8		174	< 1	8.5		0.41		
5/10/1999														< 1	118													8.56						9						2.07		
5/10/1999		80.3		0.09	0.029	< 0.005		< 0.005	14.8	< 10	1.1	< 5	< 0.01			< 0.025		0.04	< 0.005	5.6	0.033	< 0.0002		< 0.04	< 0.05					< 10	1.6		7.7	2			105	1.1	< 3			< 0.025	< 0.1
8/16/1999		74.1							19.4	12.4	7				144		5.3	31.4	0.014	15.3	0.62						8.05			7.4		14.5	< 1			305	< 1	782		< 0		
11/16/1999		76							17.6	17.4	4.5				88		4.8	11.9	0.0053	9.6	0.23						8.51			4.2		13.5	13.3	7.1		143	1.1	344		< 0		
5/11/2000		71.2		0.25	0.037	0.079		< 0.005	16.2	< 10	1.4	< 5	0.021	< 100	154	< 0.025		15.3	0.0057	10.5	0.3		< 0.2	< 0.04				8.15	< 10	5		13.3	5.4	8.4		139	< 1	318		1020	< 0.025	0.041
8/22/2000		66.9			0.04				19.2	< 10	1.4				137			15	0.011	11.5	0.36							8.26		5		10.6	2.2	17.1		91	< 1	610		450		
12/12/2000		70.2			0.033				13.9	< 10	< 0.5				137			0.81	< 0.005	5.8	0.05							8.33		1.8		8.6	14.4	8		68	< 1	66.5		47.5		
5/15/2001		76.1		0.16	0.038	0.03		< 0.005	16.5	< 10	1.4	< 5	< 0.01	<	151	< 0.025		5.6	< 0.005	7.9	0.14		< 0.2	< 0.04				8.88	< 10	3.2		9.6	4.7	8.5		58	< 1	121		8.5	< 0.025	0.06
8/15/2001		81.2							14.5	< 10	1.3				122			0.68	< 0.005	6.1	0.04							6.55		1.9		8.1	3.7	11.5		61	< 1	38		46.6		
12/5/2001		47.9							16.3	< 10	4.1				193			10.5	< 0.005	9.4	0.22							8.49		4.1		9.5	1.8	9.2		125	< 1	345		375		
5/1/2002	81.7	81.7		0.077	0.032	0.007		< 0.005	14.4	< 10	1.4		< 0.01	<	154	< 0.025		0.88	< 0.005	6.1	0.046		< 0.2	< 0.04				8.81	< 10	2		8.6	1.8	8.9		70	< 1	< 3		13	< 0.025	0.035
5/6/2002												< 5																														
8/7/2002		78.8							14.7	< 10	0.71							0.038	< 0.005	6.1	0.013							8.31		1.8		8.3	3.4			71	< 1	< 3				
12/5/2002		53.3			0.037				14.7	< 10	0.98				143			< 0.03		6.2	0.02							8.51		1.7		8.6	< 1	6.9		62	< 1	< 3		1.1		
5/5/2003	66.3	66.3		< 0.02	0.036	0.0073		< 0.005	14.8	< 10	< 0.5	< 5	< 0.01	<		< 0.025		< 0.033	< 0.005	6.1	0.026		< 0.2	< 0.04					< 10	1.7		9	< 1			93	< 1	< 3			< 0.025	< 0.02
8/7/2003		79.1			0.038				14.8	< 10	0.7							0.044		6.1	0.017									1.8		9	< 1			81	< 1	< 3				
12/2/2003		118			0.035				14	< 10	0.91				88			< 0.03		5.7	0.023							8.37		1.7		8.8	7.2	6.6		85	< 1	< 3		173		
5/4/2004	86.9	86.9	< 0.2	0.042	0.035	< 0.005		< 0.005	14.8	< 10	< 0.5	< 5	< 0.01		160	< 0.025		< 0.03	< 0.005	6.1	0.026	< 0.0002	< 0.2	< 0.04		267		7.83	< 10	1.7		9	2.6	9.4		106	< 1	< 3		2.8	< 0.025	< 0.02
8/4/2004	80.4	80.4		0.055	0.032				14.2	< 10	1.5				95			< 0.03		5.8	0.018							7.9		1.7		8.8	4.5	10.5		87	< 1	< 3		1		
11/30/2004	81.6	81.6		0.074	0.034				14.1	< 10	2.4				107			< 0.03		5.7	0.021							8.13		1.6		8.9	2.3	7.9		68	< 1	< 3		< 0		
5/3/2005		67.2	< 0.2	0.07	0.034	< 0.005		< 0.005	15.4	< 10	1.3	< 5	< 0.01		150	< 0.025		< 0.03	< 0.005	6.6	0.035		< 0.2	< 0.04		-0.5		8.57	< 10	1.7		9.4	1.9	8.9		103	< 1	< 3		2	< 0.025	< 0.02
8/9/2005		65.9		0.29	0.032				14	< 10	1.4				151			< 0.03		5.6	0.022							7.58		1.5		8.8	1.1	10.2		92	< 1	< 3		1.7		
12/6/2005		69.3		0.045	0.035				15	< 10	0.66				125			< 0.03		6.2	0.035							7		1.4		9.4	2.9	7		147	< 1	< 3		5.3		
5/5/2006		76.9	< 0.2	0.12	0.038	< 0.005			15.5	< 10	1.2		< 0.01		362	< 0.025		< 0.03	< 0.005	6.5	0.042		< 0.2			81.4		8.4		1.7		9.8	7.4	11.9		104	< 1	< 4		0.3	< 0.025	< 0.02
8/24/2006		72.6		0.14	0.036				15.5	< 10	1.3				155			< 0.03		6.5	0.032									1.7		10.4	< 1	10.5		95	< 1	< 4	0.3			
12/6/2006		82.3		0.065	0.033				13.6		1.2							< 0.03		5.7	0.036									1.5		8.6	2.6	7.7		114	< 1	< 4	< 0			
5/3/2007		74.4	< 0.2	0.083	0.036	< 0.005			14.2		1.6		< 0.01		162	< 0.025		< 0.03	< 0.005	6	0.044		< 0.2			-54.8		8.25		1.6		9.3	5.8	9.7		160	1.4	< 4		0.3	< 0.025	< 0.02
8/7/2007		83.6		0.081	0.038				14.6		1.2				155			< 0.03		6	0.026							7.75		1.6		9.6	2.2	16.2		87	< 1	< 4		0.9		
12/7/2007		79.7		0.17	0.039				14.7		1.6				161			0.034		6.1	0.038							9.26		1.7		10	5.5	6		87	< 1	< 4		0.4		
5/1/2008		88.3	< 0.2	0.077	0.036	< 0.005			14.6		0.77		< 0.01		171	< 0.025		< 0.03	< 0.005	6.2	0.041		< 0.2			2		7.88		1.6		10.3	< 1	9.1		64	< 1	< 4		0.8	< 0.025	< 0.02
8/7/2008		98		0.26	0.036				14.1		1.3							< 0.03		5.9	0.035							8.43		1.6		10	< 1			130	< 1	< 4				
12/1/2008		88.1		0.027	0.036				14.7		1.8							0.09		6.2	0.045									1.6		10.4	5			86	< 1	28.8				
5/7/2009		85.8	< 0.030	0.089	0.0342	< 0.0050			14.7		1.6		< 0.0100		161	< 0.0250	6.7	< 0.030	< 0.0050	6.26	0.0413	< 0.0002			< 0.050		-3.7	8.21			1.62		10.1	4.74	9.1		50.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/26/2009		87.3		0.136	0.0338				14.9		0.9				172		4.4	< 0.030		6.41	0.0291				< 0.050			8.23			1.66		10.2	2.10	11.4		60.0	< 1.0	< 4.0		0.3		
11/4/2009		87.9		0.094	0.0354				14.4		2.3				155		0.9	< 0.030		6.06	0.0311				0.056			8.11			1.58		9.6	4.91	9.2		87.0	< 1.0	< 4.0		6		
4/23/2010		81.2	0.045	0.151	0.0356	< 0.0050			13.9		1.1		< 0.0100		185	< 0.0250	1.3	< 0.030	< 0.0050	5.91	0.0379	< 0.0002			< 0.050		78.7	8.00			1.55		9.7	5.32	8.6		67.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/2/2010		83.5		0.170	0.0347				14.5		1.1				195		0.4	< 0.030		6.07	0.0265				< 0.050			8.16			1.55		9.8	< 1.49	14		74.0	< 1.0	< 4.0		0.6		
11/2/2010		86.7		0.069	0.0345				14.6		2.3				174		1.2	< 0.030		6.27	0.0339				< 0.050			8.15			1.69		9.7	3.23	9.6		58.0	< 1.0	< 4.0		0.6		
4/26/2011		83.6	< 0.060	0.061	0.036	< 0.0050			14.2		0.88		< 0.010		165	< 0.025	1.0	0.035	< 0.0050	6.2	0.037	< 0.00020			< 0.050		75.4	8.21			1.7		9.6	4.8	9.1		162	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/3/2011		85.0			0.037				14.0		1.2				204		2.1	< 0.030		6.2	0.019				1.6		-24.0	8.08			1.6		9.7	2.2	14.4		97.0	< 1.0	< 4.0		0.6		
11/1/2011		76.0			0.034				14.9		0.71				175		0.9	< 0.030		6.4	0.028				< 0.050		48.2	7.84			1.8		9.4	2.1	9.8		77.0	< 1.0	< 4.0		1.2		
4/25/2012		82.3	< 0.060		0.033	0.0023			14.6		1.4		< 0.010		158	< 0.025	0.9	< 0.030	< 0.0050	6.0	0.032	< 0.00020			< 0.050		-55.0	7.98			1.6		9.0	5.7	9.5		71.0	< 1.0	< 4.0		0	< 0.025	< 0.020
8/7/2012		86.8			0.034				14.5		1.7				158		1.1	< 0.030		5.9	0.024				< 0.050		-33.0	7.56			1.6		9.0	< 1.5	12.0		97.0	< 1.0	< 4.0		2.4		
10/30/2012		75.2			0.035				13.9		1.5				158		0.9	< 0.030		6.1	0.028				< 0.050		141.6	8.26			1.5		8.9	< 1.5	10.2		95.0	< 1.0	< 4.0		0.7		
4/2/2013		77.7	< 0.060	< 0.020	0.033	0.0024			15.7		0.87		< 0.010		154	< 0.025	0.5	< 0.030	< 0.0050	6.4	0.036	< 0.00020			0.020		-108.5	8.70			1.7		9.1	< 1.5	8.4		80.0	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/6/2013		86.1			0.032				15.1		1.5				157		1	0.058		6.1	0.034				< 0.05		-14.6	8.23			1.7		9	< 1.5	10.3		78	1.1	< 4		0		
10/31/2013		93.2			0.032				14.3		1.1				155		1.0	0.15		6.2	0.031				< 0.050		-23.2	8.42			1.6		8.5	1.7	8.9		60.0	0.60	< 4.0		0		
5/2/2014		92.1	0.65		0.035	0.0061			14.8		1.1		< 0.010		163	0.0039	2.9	0.65	< 0.0050	6.5	0.055	< 0.00020			0.056		77.0	8.12			1.9		10.3	9.2	12.4		67.0	0.93	24.0		42.1	< 0.025	0.015
8/14/2014		79.2		0.067	< 0.0056				14.9		1.2				124		0.4	0.28		6.4	0.045				0.025		-23.0	7.58			1.7		9.8	2.8	18.1		97.0	< 1.0	9.6		9.1		
11/10/2014		78.2			0.036				14.7		0.80				152		0.8	< 0.030		6.4	0.029				0.029		95	8.28			1.7		9.6	< 1.5	8.0		155	< 1	< 4.0		0		
5/19/2015		81.5	< 0.060		0.035	0.0025			13.2		1.3		< 0.010		140	< 0.025	0.2	< 0.030	< 0.0050	6.8	0.023	< 0.00020			0.025		10.0	8.74			1.5		8.7	7.7	10.5		86.0	0.79	< 4.0		0.4	< 0.025	0.010
8/20/2015		85.4			0.037				14.6		1.8				108		0.6	0.030		6.1	0.023				0.035		416.0	8.19			1.8		9.7	2.4	19.7		73.0	0.76	< 4.0		0		
11/10/2015		82			0.031				13		2.1				101		0.9	< 0.030		5.7	0.021				< 0.050		119.0	8.31			1.6		9.3	2.9	15.7		62	< 1.0	< 4.0		0		
5/6/2016		84	< 0.060		0.034	< 0.0050			15		0.95		< 0.010		163	< 0.025	1.1	0.040	< 0.0050	6.2	0.034	< 0.00020			< 0.050		-21.7	8.15			1.8		9.0	1.8	10.8		52	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/17/2016		81			0.029				15		0.59				166		1.2	< 0.030		6.3	0.026				< 0.050		46.2	7.78			1.6		8.4	2.0	11.0		49	< 1.0	< 4.0		0.7		
11/8/2016		87			0.033				15		0.78				160		0.5	< 0.030		6.3	0.026				< 0.050		-33.4	8.51			1.7		9.1	< 5.0	9.3		74	< 1.0	< 4.0		0.4		
5/8/2017		85	< 0.050		0.033	< 0.0050			14		1.5		< 0.010			< 0.025	0.8	0.16	< 0.0050	6.1	0.035	< 0.00020			< 0.050		-3.6	8.55			1.6		8.7	< 5.0	8.6		62	< 1.0	< 4.0		0.7	< 0.025	< 0.020
8/15/2017		76			0.032				14		0.94						1.2	< 0.030		6.0	0.026				< 0.050		-49.9	8.53			1.6		8.7	< 5.0	10.9		90	< 1.0	< 4.0		0.1		
11/7/2017		81			0.030				15		1.9						4.1	0.039		6.2	0.027				< 0.050		-29.5	8.41			1.6		11	< 5.0	8.7		64	< 1.0	4.8	1.3			
5/8/2018		83	< 0.25		0.029	< 0.0050			14		1.8		< 0.010			< 0.025	1.3	< 0.030	< 0.0050	6.0	0.023				< 0.050		-13.3	7.92			1.7		8.0	< 5.0	10.3		57	< 1.0	< 4.0	0.5		< 0.025	< 0.020
8/23/2018		76	< 0.25		0.032	< 0.0050			14		1.1		< 0.010			< 0.025	1.1	< 0.030	< 0.0050	5.9	0.016				< 0.050		36.2	7.77			1.6		7.9	< 5.0	10.6		76	< 1.0	< 4.0	1.2		< 0.025	< 0.020
11/8/2018		79	< 0.25		0.029	< 0.0050			13		< 0.50		< 0.010			< 0.025	1.5	< 0.030	< 0.0050	5.6	0.020				< 0.050		143.7	7.54			1.5		7.5	< 5.0	9.0		99	< 1.0	< 4.0	0.4		< 0.025	< 0.020
5/16/2019		78	< 0.25		0.031	< 0.0050			15		1.4		< 0.010			< 0.025	0.9	< 0.030	< 0.0050	6.1	0.025				< 0.050		112.8	8.44			1.6		7.9	< 5.0	8.7		55	< 1.0	< 4.0	0.5		< 0.025	< 0.020
8/5/2019		86	< 0.25		0.028	< 0.0050			14		0.77		< 0.010			< 0.025	1.7	< 0.030	< 0.0050	5.9	0.014				< 0.050		-40.2	8.67			1.8		8.1	< 5.0	9.7		60	< 1.0	< 4.0	0		< 0.025	< 0.020
12/10/2019		76	< 0.25		0.030	< 0.0050			14		0.53		< 0.010			< 0.025	1.3	< 0.030	< 0.0050	5.8	0.017				< 0.050		-195.0	7.21			1.6		7.8	< 5.0	9.0		92	< 1.0	< 4.0	0.1		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-1E																																											
8/9/1999		89.8		0.05	< 0.01	0.11		< 0.005	12.3	< 10	8	< 5	0.025		228	< 0.025		16.8	0.0077	12.1	0.68		< 0.2	0.06				7.06	< 10	5.7		20.7	8.6	24.2		207	1.8	74		2950	< 0.025	0.06
8/9/1999														6800																													
11/22/1999		134							16.1	< 10	1.7				248		5.6	0.21	< 0.005	18.1	0.66						7.24			2		10.1	6	4.7		156	< 1	6.5		< 0		
5/9/2000		122		< 0.02	< 0.01	0.024		< 0.005	15.8	< 10	1.6	< 5	< 0.01	2	236	< 0.025		0.2	< 0.005	17	0.042		< 0.2	< 0.04				6.52	< 10	2		11.4	5.6	11.8		140	1.1	7		92.1	< 0.025	< 0.02
8/22/2000		119							14.6	< 10	1.6				174			0.35	< 0.005	17.8	0.1							6.17		1.9		10.6	6.8	19.3		80	< 1	< 3		7.39		
12/11/2000		123							14.4	< 10	1.5				354			0.096	< 0.005	16.6	0.78							9.59		1.6		10.2	7.4	6.1		124	< 1	< 3		16.3		
5/15/2001		128		< 0.02	< 0.01	0.014		< 0.005	14.3	< 10	1.8	< 5	< 0.01	<	278	< 0.025		0.046	< 0.005	16.8	0.013		< 0.2	< 0.04				7.42	< 10	1.9		10.1	6.7	10.9		109	< 1	< 3		10.9	< 0.025	< 0.02
8/15/2001		118							15.4	< 10	2.9				227			12.4	< 0.005	20.9	0.2							6.47		3.5		10.4	< 1	35.6		129	< 1	234		370		
12/5/2001		121							15.2	< 10	1.4				251			0.15	< 0.005	17.2	0.086							7.31		1.8		10.6	9.1	14.5		167	1.4	8		17.8		
5/2/2002	131	131		< 0.02	< 0.01	0.013		< 0.005	14.4	< 10	1.6	< 5	< 0.01	5	256	< 0.025		0.19	< 0.005	16.6	0.056		< 0.2	< 0.04				7.38	< 10	1.6		9.5	9.8	6.1		170	< 1	< 3		5.32	< 0.025	< 0.02
12/5/2002		88.4			< 0.01				15.3	< 10	1.7				234			0.16		18.9	0.054							7.43		1.8		10.4	11.9	4		117	< 1	6		9.7		
5/5/2003	102	102		< 0.02	< 0.01	0.015		< 0.005	16.2	11.5	1.4	< 5	< 0.01	<	188	< 0.025		< 0.033	< 0.005	19.4	0.053		< 0.2	< 0.04		166		7.28	< 10	1.5		10.5	5.8	15.3		148	< 1	< 3		1.2	< 0.025	< 0.02
8/7/2003		123			< 0.01				15	< 10	3.3				210			< 0.033		18.2	0.024							6.99		1.6		10.8	12.1	17.2		139	< 1	< 3		0.3		
12/2/2003		174			< 0.01				14.2	< 10	1.7				80			< 0.03		17.1	< 0.01							8.09		1.6		9.9	10.9	8		130	< 1	< 3		183		
5/4/2004	144	144	< 0.2	< 0.02	< 0.01	0.0091		< 0.005	14.9	< 10	0.68	< 5	< 0.01		198	< 0.025		< 0.03	< 0.005	17.6	< 0.01	< 0.0002	< 0.2	< 0.04		267		7.66	< 10	1.4		9.8	8.1	7.4		163	< 1	< 3		5.3	< 0.025	< 0.02
8/4/2004	133	133		< 0.02	< 0.01				14	< 10	2.4				147			< 0.03		17.1	0.011							6.35		1.5		10.8	9.9	14.9		136	< 1	3		2.5		
11/30/2004	50.8	50.8		< 0.02	< 0.01				14.7	< 10	2.8				160			< 0.03		17.3	0.047							6.99		1.4		9.9	1.8	9.5		129	< 1	< 3		0.2		
5/3/2005		110	< 0.2	< 0.02	< 0.01	0.0088		< 0.005	14.6	< 10	1.6	< 5	< 0.01		240	< 0.025		0.042	< 0.005	17.7	0.085		< 0.2	< 0.04		148		7.12	< 10	1.3		10	7.7	7.8		172	< 1	< 3		2.1	< 0.025	< 0.02
8/9/2005		104		0.097	< 0.01				14.1	< 10	2				229			< 0.03		16.9	0.012							6.83		1.3		10.6	9.7	21.7		149	< 1	< 3		2.1		
12/6/2005		118		0.051	0.032				75.5	< 10	91				180			343		120	3.2							6.67		47.3		73.2	1010	5.3		6650	3.4	279		2300		
5/5/2006		108	0.88	0.049	< 0.01	0.019			12.6	< 10	2.2		< 0.01		400	< 0.025		0.63	< 0.005	9.4	< 0.01		< 0.2			163.3		6.91		1.4		31.2	20.2	22.6		189	< 1	< 4		13.2	< 0.025	< 0.02
8/24/2006		104		< 0.02	< 0.01				14.3	< 10	2.4				257			0.19		12.4	0.021									1.4		25.9	7.5	18.2		320	< 1	163	400			
12/6/2006		123		< 0.02	< 0.01				13.4		2.9							4.5		14.3	0.16									2.2		18.8	18.3	2.9		169	< 1	< 4	15			
5/3/2007		105	< 0.2	< 0.02	< 0.01	0.014			13.9		2.6		< 0.01		255	< 0.025		0.071	< 0.005	14.7	< 0.01		< 0.2			-38		7.53		1.4		17.1	16	14.4		172	1.9	< 4		1.1	< 0.025	< 0.02
8/7/2007		117		0.13	< 0.01				16		3				262			14.7		18.6	0.15							7.47		4.4		30.7	23.9	29.7		568	2.3	868		2000		
12/7/2007		110		0.056	< 0.01				14.3		2.6				246			0.39		15.6	0.058							8.24		1.7		15.7	21	4		146	1.3	5.6		4.1		
5/1/2008		105	< 0.2	< 0.02	< 0.01	0.012			14.2		2		< 0.01			< 0.025		< 0.03	< 0.005	15.7	< 0.01		< 0.2							1.4		15.1	14.4			141	< 1	< 4			< 0.025	< 0.02
8/7/2008		114		0.17	< 0.01				14		2.5							0.13		16.1	0.036							7.46		1.5		15.1	12.7			188	< 1	< 4				
12/1/2008		112		< 0.02	< 0.01				13.6		2.4							< 0.03		15.9	< 0.01									1.4		14.5	13.1			146	< 1	< 4				
5/4/2009		112	0.206	0.073	< 0.0050	0.0120			14.1		2.4		< 0.0100		259	< 0.0250	6	0.128	< 0.0050	16.3	0.0134	< 0.0002			< 0.050		22.5	6.99			1.38		14.1	14.3	21		161	< 1.0	< 4.0		3	< 0.0250	< 0.0200
8/26/2009		141		0.057	< 0.0056				14.2		2.5				260		3.8	< 0.030		16.8	< 0.0100				< 0.050			7.31		1.44		14.1	11.0	19.9		126	< 1.0	< 4.0		0.9		
11/4/2009		125		0.074	< 0.0056				14.1		1.5				239		3.5	0.057		16.8	0.0208				0.055			7.05		1.48		14.0	12.7	10.8		150	< 1.0	< 4.0		7		
4/23/2010		120	0.041	< 0.020	< 0.0056	0.0096			13.4		2.2		< 0.0100		280	< 0.0250	7.4	< 0.030	< 0.0050	16.0	< 0.0100	< 0.0002			< 0.050		114.7	6.73			1.29		12.9	11.5	7.8		121	< 1.0	< 4.0		0.1	< 0.0250	< 0.0200
8/2/2010		129		0.036	< 0.0056				14.1		2.3				304		7.3	0.127		16.9	0.0256				< 0.050			7.60		1.35		13.5	8.60	20		250	< 1.0	< 4.0		6.7		
11/2/2010		62.7		0.102	0.0756				33.8		58.9				150		4.3	156		51.9	1.78				< 0.050			6.54		18.9		38.5	< 1.49	14.2		1640	4.1	1380		1000.0		
4/26/2011		72.5	44.5	0.052	0.023	0.25			13.8		4.0		0.047		178	0.049	3.2	39.8	0.043	18.6	1.7	< 0.00040			< 0.050		176.4	6.48			7.0		22.8	2.5	10.2		1080	5.5	25.6		769.0	0.043	0.15
8/31/2011		155			< 0.0056				13.2		4.1				269		7.2	2.8		12.8	0.071				0.34		131.0	6.78			1.6		23.2	9.1	29.2		217	3.5	32.8		73.9		
10/31/2011		108			< 0.0056				12.9		2.8				252		4.9	0.17		13.0	0.022				0.062		100.4	7.12			1.8		18.7	1.5	12.4		122	< 1.0	< 4.0		5.2		
4/26/2012		117	0.35		< 0.0056	0.011			14.4		2.9		< 0.010		240	0.0018	5.9	0.18	< 0.0050	14.2	0.0050	< 0.00020			0.043		56.7	6.97			1.5		17.3	3.8	13.2		158	0.91	< 4.0		4.6	0.0018	0.0015
8/7/2012		122			< 0.0056				14.1		2.3							0.93		14.6	0.022				0.056						1.6		16.4	< 1.5				0.71					
8/15/2012					< 0.0056				13.6						254		3.7	0.020		13.8	0.0066						1.2	7.11			1.5		15.9		25.5		532		211		254.0		
10/30/2012		151			< 0.010				12.3		3.7				252		3.9	3.1		12.8	0.18				0.17		146.3	7.06			2.0		25.6	< 1.5	15.8		200	5.5	16.8		157.0		
4/3/2013		117	0.53	0.016	< 0.0056	0.012			13.9		2.6		< 0.010		251	0.0027	8.2	0.32	< 0.0050	14.2	0.011	< 0.00020			0.15		138.8	7.37			1.4		18.1	< 1.5	4.7		145	1.4	< 4.0		9.6	< 0.025	0.0023
8/6/2013		116			< 0.0056				14.1		3.3				257		4.1	0.17		15	0.0063				0.03		109.4	7.56			1.4		18.1	< 1.5	25		138	1.4	< 4		1.9		
10/31/2013		134			< 0.010				13.5		2.4				242		6.3	0.061		15.3	0.030				< 0.050		111.2	7.23			1.2		16.2	1.7	8.1		89.0	1.4	6.4		64.2		
5/2/2014		130	1.4		< 0.0056	0.017			14.0		2.3		0.0014		243	0.0020	4.0	0.95	< 0.0050	15.4	0.028	< 0.00020			0.13		102.0	7.22			1.6		16.2	2.6	12.8		122	1.5	< 4.0		21.6	< 0.025	0.0071
8/14/2014		140		< 0.020	< 0.0056				14.5		2.6				227		1.3	0.63		16.0	0.018				0.045		144.0	7.04			1.5		16.1	< 1.5	18.3		147	0.72	6.4		3.1		
11/10/2014		121			< 0.0056				13.8		1.9				200		0.8	0.034		16.3	0.00069				0.025		108	6.92			1.5		16.7	< 1.5	9.5		183	0.58	< 4.0		0		
11/11/2015		130			< 0.0056				14		2.1				152		3.0	0.16		16	< 0.010				0.064		201.0	6.90			1.6		15	3.5	15.9		150	< 1.0	6.8		0		
11/12/2015																																							< 4.0				
5/6/2016		120	0.30		< 0.0056	0.0097			14		2.3		< 0.010		257	< 0.025	4.6	0.23	< 0.0050	16	< 0.010	< 0.00020			< 0.050		77.2	7.04			1.5		17	2.1	19.8		110	< 1.0	< 4.0		17.0	< 0.025	< 0.020
5/9/2017		130	1.3		< 0.0090	0.029			10		6.6		< 0.010			< 0.025	3.5	3.6	0.0064	10	0.031	< 0.00020			0.12		153.6	6.64			1.7		26	7.2	11.2		230	3.1	110		36.1	< 0.025	< 0.020
11/17/2017		120			< 0.0090				14		3.7						8.3	8.4		16	0.18				0.097		81.0	7.27			3.2		24	< 5.0	9.6		160	1.3	53	44.1			
5/29/2018		120	0.48		< 0.0090	0.0091			11		2.6		< 0.010			< 0.025	3.4	0.20	< 0.0050	12	< 0.010				0.12		17.9	6.93			1.1		23	< 5.0	21.2		150	< 1.0	110	7.7		< 0.025	< 0.020
W11-1ER																																										
11/19/2018		140	< 0.25		< 0.0090	0.024			20		6.6		< 0.010			< 0.025	8.0	0.20	< 0.0050	18	0.62				< 0.050		114.9	5.18			2.2		13	< 5.0	4.1		180	1.6	7.2	13.8		< 0.025	< 0.020
5/21/2019		130	0.82		< 0.0090	0.016			14		3.0		< 0.010			< 0.025	2.0	0.59	< 0.0050	17	0.46				< 0.050		118.6	6.61			1.5		10	< 5.0	14.2		130	< 1.0	< 4.0	1.9		< 0.025	< 0.020
8/5/2019		130	< 0.25		< 0.0090	0.0097			14		3.1		< 0.010			< 0.025	6.5	0.041	< 0.0050	17	0.093				< 0.050		-148.1	7.35			1.4		10	< 5.0	29.3		120	< 1.0	20	26.2		< 0.025	< 0.020
11/11/2019		120	< 0.25		< 0.0090	0.011			14		2.7		< 0.010			< 0.025	7.9	< 0.030	< 0.0050	18	0.31				< 0.050		-86.4	7.15			1.4		11	< 5.0	6.8		140	< 1.0	< 4.0	0		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-2E																																											
11/5/1998		94.5		< 0.02	< 0.01	0.022		< 0.005	15.2	< 10	4.2	< 5	< 0.01	< 1	183	< 0.025		1.3	< 0.005	10.1	0.081		< 0.2	< 0.04				8.01	< 2	1.5		10.5	7.1	10.1		96	1.3	9			< 0.025	0.06
12/9/1998		377							45.8	< 10	7.2				162			3	0.0051	17.8	0.33							7.27		5.3		141	117	8.1		613	8.6	74.4		3.03		
5/12/1999														< 1	217													7.34						8						0.74		
5/12/1999		92.4		0.02	< 0.01	0.01		< 0.005	14.2	< 10	5.7	< 5	< 0.01			< 0.025		< 0.03	< 0.005	11.7	< 0.01	< 0.0002		< 0.04	< 0.05				< 10	1.6		8	4.7			116	< 1	4			< 0.025	0.036
11/16/1999		90							15.2	< 10	5.3				120		6.6	< 0.03	< 0.005	12.9	< 0.01						7.58		1.6		10.1	4	4.6		128	< 1	< 3		< 0		
5/9/2000		97		< 0.02	< 0.01	0.0098		< 0.005	16	< 10	5.6	< 5	< 0.01	1	201	< 0.025		0.12	< 0.005	12.2	< 0.01		< 0.2	< 0.04				7.01	< 10	1.5		10.7	2.4	11.4		117	< 1	4.5		3.43	< 0.025	< 0.02
8/22/2000		96							15.7	< 10	5				167			< 0.03	< 0.005	12.5	< 0.01							7.1		1.4		9.8	< 1	16		53	< 1	< 3		1.08		
12/12/2000		97							13.3	< 10	5.4				151			< 0.03	< 0.005	11	< 0.01							6.47		1.4		9.5	< 1	10.4		94	< 1	< 3		1.43		
5/15/2001		106		< 0.02	< 0.01	0.0058		< 0.005	15.5	< 10	6.1	< 5	< 0.01	1	208	< 0.025		< 0.03	< 0.005	12.4	< 0.01		< 0.2	< 0.04				7.84	< 10	1.5		9.6	6.7	10.3		87	< 1	< 3		10.3	< 0.025	< 0.02
8/15/2001		111							15.9	< 10	4.6				384			< 0.03	< 0.005	12.2	< 0.01							6.47		1.5		9.6	2.9	31.9		81	2.2	< 3		6.63		
12/5/2001		98.5							14.4	< 10	5.4				221			< 0.035	< 0.005	11.9	< 0.01							7.82		1.3		10.2	2.5	14		113	1	< 3		1.37		
5/6/2002	108	108		< 0.02	< 0.01	0.012		< 0.005	14.6	< 10	5.7	< 5	< 0.01	20000	218	< 0.025		< 0.035	< 0.005	11.9	< 0.01		< 0.2	< 0.04				7.96	< 10	1.1		8.8	2	6.5		120	< 1	< 3		2.06	< 0.025	< 0.02
8/7/2002		108							16	< 10	4.2							< 0.03	< 0.005	12.4	< 0.01							7.84		1.3		9.5	< 1			97	< 1	< 3				
12/5/2002		73.2			< 0.01				15.5	< 10	4.9				197			< 0.03		13.2	< 0.01							8.94		1.4		10.3	1.9	4.5		81	< 1	< 3		1.8		
5/5/2003	81.5	81.5		< 0.02	< 0.01	0.0083		< 0.005	16	< 10	5.8	< 5	< 0.01	<	169	< 0.025		< 0.033	< 0.005	13	< 0.01		< 0.2	< 0.04		196		7.74	< 10	1.2		9.6	< 1	10.4		122	< 1	< 3		1	< 0.025	< 0.02
8/7/2003		103			< 0.01				15.5	< 10	7.7				190			< 0.033		12.3	< 0.01							7.48		1.3		9.6	8.4	19.1		120	< 1	< 3		< 0		
12/3/2003		151			< 0.01				14.6	< 10	7.6				149			0.049		11.7	< 0.01							7.57		1.3		9.6	< 1	4.3		129	< 1	< 3		6.2		
5/4/2004	117	117	< 0.2	0.4	< 0.01	< 0.005		< 0.005	15.6	< 10	6.1	< 5	< 0.01		239	< 0.025		< 0.03	< 0.005	12.2	< 0.01	< 0.0002	< 0.2	< 0.04		274		8.72	< 10	1.2		9.2	2.6	7.3		123	< 1	< 3		3.3	< 0.025	< 0.02
8/4/2004	107	107		< 0.02	< 0.01				15.2	< 10	7				122			< 0.03		12	< 0.01							7.66		1.3		9.9	3.7	18.1		108	< 1	< 3		1.9		
11/30/2004	97.6	97.6		< 0.02	< 0.01				15.1	< 10	7.8				146			< 0.03		12.4	< 0.01							7.43		1.3		11.1	1.6	8.8		109	< 1	< 3		< 0		
5/3/2005		89.2	< 0.2	< 0.02	< 0.01	< 0.005		< 0.005	16	< 10	6.6	< 5	< 0.01		210	< 0.025		< 0.03	< 0.005	13	< 0.01		< 0.2	< 0.04		136		7.54	< 10	1.1		9.8	1.8	9.2		151	< 1	< 3		1.8	< 0.025	< 0.02
8/9/2005		88.3		0.097	< 0.01				15.5	< 10	5.9				201			< 0.03		11.8	< 0.01							6.57		1.1		9.6	7	22.9		112	< 1	3		1.6		
12/6/2005		88.6		< 0.02	< 0.01				15.1	< 10	6.4				149			0.12		12.3	< 0.01							5.75		1.2		10.2	1.1	3.6		113	< 1	< 3		6.9		
5/5/2006		99.1	< 0.2	0.029	< 0.01	< 0.005			16	< 10	7.2	< 5	< 0.01		384	< 0.025		< 0.03	< 0.005	13.1	< 0.01		< 0.2			67.6		7.54		1.1		9.3	2.6	18.3		129	< 1	< 4		< 0	< 0.025	< 0.02
8/24/2006		92.5		0.042	< 0.01				16.8	< 10	6.2				214			< 0.03		13.1	< 0.01									1.2		10.2	< 1	17.6		114	< 1	< 4	4.3			
12/6/2006		103		< 0.02	< 0.01				15.4		7.4							< 0.03		12.8	< 0.01									1.2		10.5	1.9	4.6		98	< 1	< 4	1.3			
5/3/2007		95.8	< 0.2	< 0.02	< 0.01	< 0.005			15.2		8.1	< 5	< 0.01		219	< 0.025		< 0.03	< 0.005	12.5	< 0.01		< 0.2			-1.9		7.51		1		9.4	3.8	13.5		90	1.6	< 4		< 0	< 0.025	< 0.02
8/7/2007		92.7		0.17	< 0.01				16.4		6.5				205			< 0.03		12.4	< 0.01							7.67		1.2		9.3	< 1	20.9		125	< 1	< 4		1.6		
12/6/2007		120		0.1	< 0.01				15.6		7.9				212			0.036		12.7	< 0.01							7.65		1.2		10.6	2.1	1		136	< 1	< 4				
5/1/2008		80.7	< 0.2	< 0.02	< 0.01	< 0.005			15.6		7.4	< 5	< 0.01		225	< 0.025		< 0.03	< 0.005	12.7	< 0.01		< 0.2			4		7.7		1		9.7	< 1	9.5		73	< 1	< 4		0.4	< 0.025	< 0.02
8/8/2008		108		0.12	< 0.01				15.9		8.2							< 0.03		12.5	< 0.01							7.28		1.1		9.8	< 1			127	< 1	< 4				
12/1/2008		89.8		< 0.02	< 0.01				15.9		8.1							0.038		13.1	0.029									1.2		11	< 1			99	< 1	< 4				
5/4/2009		103	0.040	< 0.020	< 0.0050	< 0.0050			16.0		8.3	< 5.0	< 0.0100		224	< 0.0250	4	< 0.030	< 0.0050	13.0	0.0146	< 0.0002				< 0.050		-4.1	7.51		1.04		9.9	2.04	15.5		113	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/26/2009		104		0.060	< 0.0056				15.8		8.0				229		3.1	< 0.030		12.6	< 0.0100					< 0.050			7.65		1.16		10.0	< 1.49	21.1		135	< 1.0	< 4.0		0.2		
11/4/2009		78.5		0.100	< 0.0056				15.7		7.1				209		6.5	< 0.030		12.5	< 0.0100					0.053			7.41		1.17		10.3	< 1.49	8.3		121	< 1.0	< 4.0		6.2		
4/26/2010		101	< 0.040	< 0.020	< 0.0056	< 0.0050			15.0		9.1	< 5.0	< 0.0100		250	< 0.0250	4.1	< 0.030	< 0.0050	12.2	< 0.0100	< 0.0002				< 0.050		118.4	7.36		0.979		9.3	1.99	11		139	< 1.0	< 4.0		0.2	< 0.0250	< 0.0200
8/2/2010		125		0.140	< 0.0056				16.8		7.6				264		6.7	0.056		12.8	0.0231					< 0.050			7.65		1.14		10.1	< 1.49	23.1		167	< 1.0	14.4		7.4		
11/2/2010		110		< 0.020	< 0.0056				15.8		8.3				234		6.7	< 0.030		13.1	< 0.0100					< 0.050			7.48		1.30		11.2	2.80	12		114	< 1.0	< 4.0		2.4		
4/26/2011		97.7	< 0.060	< 0.020	< 0.0056	< 0.0050			16.0		9.1	< 5.0	< 0.010		226	< 0.025	5.1	< 0.030	< 0.0050	13.3	< 0.010	< 0.00020				< 0.050		227.8	7.24		1.1		9.6	3.5	9.5		116	< 1.0	< 4.0		1.2	< 0.025	< 0.020
8/3/2011		143			< 0.0056				15.5		8.6				275		3.8	< 0.030		12.8	< 0.010					< 0.050		77.5	7.61		1.2		9.7	< 1.5	20.5		125	< 1.0	< 4.0		0.8		
10/31/2011		94.6			< 0.0056				15.8		8.3				243		6.9	< 0.030		12.8	< 0.010					< 0.050		85.4	7.01		1.5		10	1.6	12.4		100	< 1.0	< 4.0		1.5		
4/26/2012		96.1	< 0.060		< 0.0056	0.0022			16.3		9.9	< 5.0	< 0.010		220	< 0.025	5.1	< 0.030	< 0.0050	13.4	0.00094	< 0.00020				0.040		20.1	7.28		1.1		10.1	4.9	10.6		141	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/7/2012		99.7			< 0.0056				16.3		8.5				226		3.6	0.34		12.7	0.0099					< 0.050		-32.2	7.70		1.2		10.4	< 1.5	23.2		123	< 1.0	4.8		1.7		
10/30/2012		101			< 0.0056				15.8		8.9				267		9.4	0.052		13.2	0.024					0.028		52.0	6.68		1.2		10.1	1.5	15.0		110	< 1.0	< 4.0		3.0		
4/3/2013		95.8	< 0.060	< 0.020	< 0.0056	0.0019			16.3		10	< 5.0	< 0.010		228	< 0.025	4.6	< 0.030	< 0.0050	13.7	0.0015	< 0.00020				0.027		95.2	7.66		1.1		9.9	< 1.5	4.8		124	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/6/2013		90.9			< 0.0056				16.7		10.2				225		3.4	0.054		13.2	0.0023					< 0.05		89.5	6.93		1.2		10.4	< 1.5	21.3		106	< 1	< 4		0.3		
10/31/2013		106			< 0.0056				15.5		9.7				219		7.8	0.056		13.5	0.0015					< 0.050		134.0	7.31		1.2		10.2	2.0	8.2		94.0	0.52	< 4.0		1.0		
5/2/2014		115	0.075		< 0.0056	0.0024			15.6		11.0	< 5.0	< 0.010		225	< 0.025	0.5	0.072	< 0.0050	13.3	0.0080	< 0.00020				0.070		155.0	7.29		1.1		10	3.4	8.7		107	0.92	< 4.0		0	< 0.025	< 0.020
8/14/2014		104		< 0.020	< 0.0056				16.4		10.4				193		1.2	0.10		13.2	0.012					0.085		126.0	7.65		1.2		10.7	< 1.5	15.9		127	< 1.0	< 4.0		6.6		
11/10/2014		99.6			< 0.0056				16.0		9.4				207		2.8	0.050		13.6	0.0016					0.022		119	7.62		1.2		10.9	< 1.5	9.9		157	< 1	< 4.0		0		
5/18/2015		95.2	0.073		< 0.0056	0.0021			13.4		4.2	< 5.0	< 0.010		176	< 0.025	2.2	0.035	< 0.0050	14.2	0.0031	< 0.00020				< 0.050		212.0	7.63		0.90		9.1	2.3	9.4		131	0.64	< 4.0		0.5	< 0.025	0.0015
8/20/2015		88.4			< 0.0056				16.7		10.5				152		5.8	0.20		13.0	0.021					< 0.050		394.0	7.81		1.3		9.8	5.6	20.7		109	0.65	6.4		0		
11/10/2015		100			< 0.0056				15		12				144		3.9	< 0.030		13	< 0.010					< 0.050		206.0	7.5		1.2		11	2.4	13.9		110	< 1.0	< 4.0		0		
4/28/2016		98	< 0.060		< 0.0056	< 0.0050			15		12	< 5.0	< 0.010		229	< 0.025	4.9	< 0.030	< 0.0050	12	< 0.010	< 0.00020				< 0.050		57.3	7.45		0.96		9.5	5.6	12.7		130	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/17/2016		90			< 0.0056				16		10				241		4.9	0.070		13	0.012					< 0.050		88.0	7.94		1.1		8.9	< 1.5	23.9		87	< 1.0	< 4.0		1.7		
11/8/2016		110			< 0.0090				16		12				256		7.3	0.063		14	< 0.010					< 0.050		38.0	8.29		1.2		11	< 5.0	17.2		100	< 1.0	< 4.0		2.9		
5/25/2017		96	< 0.050		< 0.0090	< 0.0050			16		13	< 5.0	< 0.010			< 0.025	2.5	< 0.030	< 0.0050	14	< 0.010	< 0.00020				< 0.050		-5.6	7.19		1.1		11	< 5.0	11.0		130	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/17/2017		97			< 0.0090				16		11						3.6	< 0.030		13	< 0.010					< 0.050		142.3	8.05		1.3		10	< 5.0	26.5		110	< 1.0	< 4.0		0.5		
11/2/2017		100			< 0.0090				16		12						5.4	< 0.030		13	0.011					< 0.050		186.1	6.56		1.2		9.5	< 5.0	12.8		130	< 1.0	< 4.0	1.6			
5/21/2018		100	< 0.25		< 0.0090	< 0.0050			16		13	< 1.0	< 0.010			< 0.025	3.3	< 0.030	< 0.0050	14	< 0.010					< 0.050		14.0	6.94		1.0		11	< 5.0	18.7		130	< 1.0	< 4.0	1.5		< 0.025	< 0.020
8/22/2018		87	< 0.25		< 0.0090	< 0.0050			16		13		< 0.010			< 0.025	3.7	< 0.030	< 0.0050	13	< 0.010					< 0.050		80.3	7.14		1.1		10	< 5.0	19.8		130	< 1.0	< 4.0	2.8		< 0.025	< 0.020
11/7/2018		100	< 0.25		< 0.0090	< 0.0050			15		12		< 0.010			< 0.025	6.1	0.036	< 0.0050	13	< 0.010					< 0.050		163.2	6.73		1.2		11	< 5.0	12.8		120	< 1.0	< 4.0	2.9		< 0.025	< 0.020
5/20/2019		97	< 0.25		< 0.0090	< 0.0050			16		13	< 1.0	< 0.010			< 0.025	1.9	< 0.030	< 0.0050	14	< 0.010					< 0.050		108.8	7.19		1.0		10	< 5.0	12.7		100	< 1.0	< 4.0	0.8		< 0.025	< 0.020
8/7/2019		94	< 0.25		< 0.0090	< 0.0050			15		13		< 0.010			< 0.025	7.1	0.038	< 0.0050	12	< 0.010					< 0.050		-172.3	7.82		1.1		9.4	< 5.0	25.8		110	< 1.0	< 4.0	4.0		< 0.025	< 0.020
11/11/2019		80	< 0.25		< 0.0090	< 0.0050			15		14		< 0.010			< 0.025	6.4	0.043	< 0.0050	13	< 0.010					< 0.050		186.7	7.73		1.1		11	< 5.0	2.7		120	< 1.0	< 4.0	5.2		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-3E																																											
8/9/1999		80.2		< 0.02	< 0.01	0.044		< 0.005	13.3	< 10	2.2	< 5	< 0.01		209	< 0.025		2.7	< 0.005	7	0.34		< 0.2	< 0.04				7.2	< 10	2.3		16.5	17.1	23.5		107	1.4	< 3		329	< 0.025	0.032
8/9/1999														2300																													
8/16/1999		95.6		< 0.02	< 0.01	0.029		< 0.005	15.5	< 10	1.7	< 5	< 0.01	870	190	< 0.025	2.6	0.15	< 0.005	9.2	0.28	< 0.0002		< 0.04	< 0.05			7.14		< 10	1.6		11.4	11.6	29.3		157	1	4.5		< 0	< 0.025	< 0.02
11/22/1999		110							19	< 10	1.6				165		6.6	0.08	< 0.005	11.6	0.018							7.54			2		10.6	6	6.8		134	2.3	< 3		< 0		
5/10/2000		125		< 0.02	< 0.01	0.017		< 0.005	16.8	< 10	1.4	< 5	< 0.01	<	142	< 0.025		0.11	< 0.005	11.8	0.039		< 0.2	< 0.04				8.52	< 10	1.9		10.6	5.6	8.3		146	< 1	< 3		136	< 0.025	< 0.02
8/22/2000		98.8							18.4	< 10	1.4				182			0.34	< 0.005	12.5	0.063							7.25		2		10.4	3.8	22.5		82	< 1	< 3		8.93		
12/11/2000		103							16.8	< 10	1.3				255			0.06	< 0.005	11.3	0.017							8.28		1.9		10.5	7.5	5.7		126	< 1	< 3		3.29		
5/15/2001		111		< 0.02	< 0.01	0.015		< 0.005	18.8	< 10	1.4	< 5	< 0.01	200	191	< 0.025		0.067	< 0.005	12.8	< 0.01		< 0.2	< 0.04				7.14	< 10	2.2		10.7	6.7	10.1		104	< 1	< 3		6.41	< 0.025	< 0.02
8/16/2001		121							18.9	< 10	0.93				325			0.12	< 0.005	12.4	0.032							7.23		2		10.5	5.8	31.6		117	< 1	4		5.38		
12/6/2001		111							16.8	< 10	1.5				207			0.045	< 0.005	11.4	0.013							7.66		1.7		10.1	6.4	10		126	1	< 3		3.23		
5/7/2002	119	119		< 0.02	< 0.01	0.013		< 0.005	18.2	< 10	1.5	< 5	< 0.01	1200	224	< 0.025		0.11	< 0.005	12.6	0.011		< 0.2	< 0.04				7.45	< 10	1.8		10.2	4.8	11.3		146	< 1	< 3		4.33	< 0.025	< 0.02
8/8/2002		118							17.6	< 10	1.4							< 0.03	< 0.005	12	< 0.01							7.46		1.7		9.6	4.2			67	< 1	< 3				
12/5/2002		82.4			< 0.01				18.8	< 10	1.4				224			< 0.03		13.4	< 0.01							7.74		1.8		10.8	4.2	2.1		98	< 1	< 3		< 0		
5/6/2003	98.1	98.1		< 0.02	< 0.01	0.015		< 0.005	18.7	< 10	1.5	< 5	< 0.01	<	125	< 0.025		< 0.033	< 0.005	12.7	< 0.01		< 0.2	< 0.04		237		7.44	< 10	1.6		10.1	5.2	7.2		121	< 1	5		1.3	< 0.025	< 0.02
8/7/2003		119			< 0.01				19	< 10	1.2				201			< 0.033		12.9	0.012							7.12		1.7		10.6	2.3	22.3		125	< 1	< 3		< 0		
12/3/2003		182			< 0.01				18.1	< 10	2.1				137			< 0.03		11.9	< 0.01							7.62		1.8		10.1	6.9	1.6		131	< 1	< 3		1.6		
5/5/2004	135	135	< 0.2	0.12	< 0.01	0.0091		< 0.005	19.2	< 10	0.77	< 5	< 0.01		249	< 0.025		< 0.03	< 0.005	13.1	< 0.01	< 0.0002	< 0.2	< 0.04		-12		5.95	< 10	1.7		10.5	7.6	10.5		135	< 1	< 3		0.3	< 0.025	< 0.02
8/4/2004	120	120		< 0.02	< 0.01				18.3	< 10	2.4				139			< 0.03		12.6	< 0.01							7.46		1.7		11.1	9.8	19.2		131	< 1	< 3		0.8		
12/1/2004	126	126		< 0.02	< 0.01				19.1	< 10	2.5				156			< 0.03		13.2	< 0.01							8.42		1.8		11.6	5.6	7.8		125	< 1	< 3		< 0		
5/17/2005		124	< 0.2	< 0.02	< 0.01	0.0085		< 0.005	19.9	< 10	2	< 5	< 0.01		229	< 0.025		< 0.03	< 0.005	14	< 0.01		< 0.2	< 0.04		189		7.04	< 10	1.6		11.4	4.7	7.8		117	< 1	< 3		2	< 0.025	< 0.02
8/10/2005		96.1		0.083	< 0.01				17.8	< 10	2.1				211			< 0.03		12.3	< 0.01							7.41		1.5		10.5	3.9	24		127	< 1	< 3		1.9		
12/7/2005		132		< 0.02	< 0.01				17.4	< 10	1.5				169			< 0.03		12.3	< 0.01							6.74		1.6		11.4	5.1	2.9		122	< 1	< 3		6.7		
5/5/2006		107	< 0.2	0.058	< 0.01	0.008			18.8	< 10	2.2	< 5	< 0.01		413	< 0.025		< 0.03	< 0.005	13.2	< 0.01		< 0.2			-55		7.37		1.6		10.9	7.8	13		138	< 1	< 4		0.4	< 0.025	< 0.02
8/24/2006		98.6		< 0.02	< 0.01				17.7	< 10	2.5				275			< 0.03		12.6	< 0.01									1.5		10.7	5.3	20.7		127	< 1	< 4	1.1			
12/6/2006		115		< 0.02	< 0.01				16.6		2.4							< 0.03		11.9	< 0.01									1.5		11	6	3.6		107	< 1	< 4	1			
5/4/2007		155	< 0.2	< 0.02	< 0.01	0.0082			17.7		3	< 5	< 0.01		254	< 0.025		< 0.03	< 0.005	12.8	< 0.01		< 0.2			16.5		7.39		1.5		11.1	9.9	16.3		117	< 1	< 4		0.2	< 0.025	< 0.02
8/7/2007		106		< 0.02	< 0.01				17.9		2.1				223			< 0.03		12.4	< 0.01							7.62		1.5		10.9	4.5	21		137	< 1	< 4		1		
12/7/2007		110		0.12	< 0.01				18.1		2.8				166			< 0.03		12.8	< 0.01							8.39		1.7		12.3	7.8	4.5		110	< 1	< 4		< 0		
5/1/2008		111	< 0.2	< 0.02	< 0.01	0.0072			18.8		2.2	< 5	< 0.01		250	< 0.025		< 0.03	< 0.005	13.3	< 0.01		< 0.2			18		7.55		1.6		12	4.1	9.6		98	< 1	< 4		0.4	< 0.025	< 0.02
8/13/2008		108		0.16	< 0.01				18.4		2.9							< 0.03		13.1	< 0.01							6.88		1.6		11.9	2.4			128	< 1	< 4				
12/2/2008		156		< 0.02	< 0.01				18.4		1.7							< 0.03		13.2	< 0.01									1.5		12.1	4.6			119	< 1	< 4				
5/7/2009		123	< 0.030	< 0.020	< 0.0050	0.0063			19.1		2.3	< 5.0	< 0.0100		231	< 0.0250	4.1	< 0.030	< 0.0050	13.4	< 0.0100	< 0.0002			< 0.050		12.4	7.37			1.57		11.4	6.75	9.5		106	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/26/2009		114		0.063	< 0.0056				19.0		2.4				255		3	0.046		13.7	< 0.0100				< 0.050			7.61			1.63		12.4	3.16	18.8		140	< 1.0	< 4.0		0.3		
11/5/2009		140		< 0.020	< 0.0056				18.2		2.7				222		7.8	< 0.030		12.8	< 0.0100				< 0.050			7.02			1.57		12.0	9.03	6.9		97.0	< 1.0	< 4.0		0.1		
4/26/2010		138	< 0.040	< 0.020	< 0.0056	0.0063			18.7		3.1	< 5.0	< 0.0100		282	< 0.0250	5.1	< 0.030	< 0.0050	13.3	< 0.0100	< 0.0002			< 0.050		101.8	7.06			1.56		11.5	8.34	15.5		131	< 1.0	< 4.0		0.3	< 0.0250	< 0.0200
8/9/2010		109		0.087	< 0.0056				19.0		2.7				249		7.2	< 0.030		13.6	< 0.0100				0.121			7.84			1.66		12.5	6.98	21.3		88.0	< 1.0	< 4.0		0.4		
11/2/2010		127		< 0.020	< 0.0056				18.6		3.2				261		6.4	< 0.030		13.9	< 0.0100				< 0.050			7.48			1.82		13.4	8.51	9.3		118	< 1.0	< 4.0		1		
4/26/2011		121	< 0.060	< 0.020	< 0.0056	0.0062			19.8		2.9	< 5.0	< 0.010		251	< 0.025	5.8	< 0.030	< 0.0050	14.4	< 0.010	< 0.00020			< 0.050		162.7	7.50			1.7		12.6	11.6	9.0		135	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/4/2011		116			< 0.0056				19.7		2.6				304		4.6	< 0.030		14.1	< 0.010				< 0.050		49.8	7.42			1.6		12.4	5.7	18.4		150	< 1.0	< 4.0		0.2		
11/1/2011		115			< 0.0056				19.5		2.9				270		7.4	< 0.030		14.1	< 0.010				< 0.050		71.7	7.57			1.8		12.3	7.3	13.2		127	< 1.0	< 4.0		1.1		
4/25/2012		102	< 0.060		< 0.0056	0.0057			19.6		3.4	< 5.0	< 0.010		251	< 0.025	5.6	< 0.030	< 0.0050	13.9	< 0.010	< 0.00020			0.020		23.7	7.32			1.6		12.2	15.7	13.6		138	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/7/2012		124			< 0.0056				18.9		2.8				261		4.9	< 0.030		13.4	0.0019				< 0.050		74.7	6.68			1.6		12.1	6.6	20.9		137	< 1.0	< 4.0		1.0		
10/29/2012		122			< 0.0056				21.0		2.7				250		4.9	< 0.030		13.7	0.00081				< 0.050		130.2	7.18			1.7		12.8	6.7	12.9		136	< 1.0	< 4.0		0.2		
4/3/2013		125	< 0.060	< 0.020	< 0.0056	0.0058			19.9		2.7	< 5.0	< 0.010		260	< 0.025	5.1	< 0.030	< 0.0050	14.5	0.0015	< 0.00020			0.046		208.1	7.43			1.6		12.6	9.2	3.6		146	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/5/2013		128			< 0.0056				20.2		3.3				260		4.4	< 0.03		14.7	0.0082				0.022		139.6	7.08			1.8		12.7	7.4	17.6		140	< 1	< 4		0.6		
10/28/2013		112			< 0.0056				20.2		2.7				257		8.0	< 0.030		14.8	0.0019				0.056		142.0	7.52			1.9		13.3	9.0	11.6		159	< 1.0	< 4.0		0.4		
5/2/2014		151	< 0.060		< 0.0056	0.0077			20.2		2.6	< 5.0	< 0.010		224	< 0.025	1.6	0.047	< 0.0050	14.5	0.0094	< 0.00020			0.039		103.0	7.50			1.7		12.7	12.2	16.0		136	< 1.0	< 4.0		0	< 0.025	0.0022
8/21/2014		147		< 0.020	< 0.0056				19.8		2.8				208		0.1	< 0.030		13.9	0.0026				0.053		149.0	7.28			1.7		13.5	2.5	22.1		126	< 1.0	< 4.0		0		
11/10/2014		125			< 0.0056				21.4		2.5				245		4.0	< 0.030		15.1	0.0036				0.051		152.0	7.47			1.7		12.3	< 1.5	9.3		166	< 1	< 4.0		0		
5/19/2015		124	< 0.060		< 0.0056	0.0070			18.4		2.9	< 5.0	< 0.010		232	< 0.025	6.9	0.038	< 0.0050	14.5	0.0061	< 0.00020			< 0.050		261.0	7.35			1.6		10.8	10	8.7		137	0.91	< 4.0		0	< 0.025	0.0020
8/20/2015		127			< 0.0056				21.1		3.4				198		3.3	< 0.030		14.6	0.0016				0.14		410.0	7.55			1.9		12.6	9.1	16.2		151	0.59	< 4.0		0		
11/11/2015		140			< 0.0056				20		3.1				168		4.2	< 0.030		14	< 0.010				0.073		195.0	7.75			1.8		12	4.6	10.2		140	< 1.0	< 4.0		0		
5/3/2016		130	< 0.060		< 0.0056	0.0059			21		2.6	< 5.0	< 0.010		262	< 0.025	4.7	< 0.030	< 0.0050	15	< 0.010	< 0.00020			< 0.050		89.8	7.16			1.7		13	9.7	11.7		120	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/15/2016		130			< 0.0056				23		2.6				268		4.2	< 0.030		16	< 0.010				0.13		139.1	7.13			1.9		13	7.4	19.8		120	< 1.0	< 4.0		0.8		
11/7/2016		140			< 0.0090				22		2.7				260		11.5	< 0.030		15	< 0.010				< 0.050		83.9	7.40			1.7		13	< 5.0	8.6		140	< 1.0	< 4.0		2.2		
5/25/2017		130	< 0.050		< 0.0090	0.0059			22		3.1	< 5.0	< 0.010			< 0.025	2.5	< 0.030	< 0.0050	16	< 0.010	< 0.00020			< 0.050		-25.3	7.04			1.7		13	< 5.0	10.4		160	< 1.0	< 4.0		0.5	< 0.025	< 0.020
8/21/2017		130			< 0.0090				23		2.9						4.4	0.059		15	< 0.010				0.12		164.5	7.51			1.8		15	22	20.0		160	< 1.0	6.0		2.5		
11/17/2017		140			< 0.0090				22		3.0						7.9	< 0.030		15	< 0.010				0.071		60.8	7.37			1.8		14	15	7.7		160	< 1.0	< 4.0	3.5			
5/29/2018		140	< 0.25		< 0.0090	0.013			22		2.8	< 1.0	< 0.010			< 0.025	2.7	< 0.030	< 0.0050	15	< 0.010				< 0.050		8.2	7.14			1.6		12	14	18.5		170	< 1.0	< 4.0	1.8		< 0.025	< 0.020
8/23/2018		140	< 0.25		< 0.0090	0.010			22		3.2		< 0.010			< 0.025	4.5	0.031	< 0.0050	15	< 0.010				0.059		68.8	7.05			1.6		12	7.4	19.5		140	< 1.0	< 4.0	1.0		< 0.025	< 0.020
11/19/2018		150	< 0.25		< 0.0090	0.011			22		2.9		< 0.010			< 0.025	9.7	< 0.030	< 0.0050	16	< 0.010				< 0.050		173.1	7.45			1.7		12	10	3.9		170	< 1.0	< 4.0	0.9		< 0.025	< 0.020
5/21/2019		130	< 0.25		< 0.0090	0.0095			21		2.6	< 1.0	< 0.010			< 0.025	2.9	< 0.030	< 0.0050	15	< 0.010				0.29		72.8	7.13			1.6		11	7.4	13.3		140	< 1.0	< 4.0	2.9		< 0.025	< 0.020
8/5/2019		140	< 0.25		< 0.0090	0.010			22		3.1		< 0.010			< 0.025	8.0	< 0.030	< 0.0050	15	0.016				0.19		-146.5	7.49			1.9		12	< 5.0	24.5		150	< 1.0	< 4.0	5.2		< 0.025	< 0.020
11/14/2019		140	< 0.25		< 0.0090	0.0083			22		2.7		< 0.010			< 0.025	14.6	0.037	< 0.0050	15	0.013				0.25		155.5	8.09			1.8		12	< 5.0	5.5		140	< 1.0	< 4.0	0		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-4E																																											
8/9/1999		130		0.05	0.01	0.049		< 0.005	12.4	< 10	2.1	< 5	0.014		371	< 0.025		6.8	< 0.005	9.6	0.2		< 0.2	< 0.04				7.66	< 10	4		50.9	23.4	20.9		300	1.7	26.5		149	< 0.025	0.054
8/9/1999														5800																													
8/16/1999		131		< 0.02	< 0.01	0.019		< 0.005	12.6	16.3	3.2	< 5	< 0.01	1800	319	< 0.025	1.6	1.4	< 0.005	8.3	0.044	< 0.0002		< 0.04	0.1			7.35		< 10	2.3		42.2	26.9	28.7		304	1.6	4.5		< 0	< 0.025	< 0.02
11/22/1999		145							18.4	< 10	1.6				299		5.3	0.15	< 0.005	12.6	0.07							7.6			2.4		30	24.3	7.3		189	1.4	< 3		< 0		
5/10/2000		145		< 0.02	< 0.01	0.017		< 0.005	21.9	< 10	1.5	< 5	< 0.01	< 100	100	< 0.025		0.53	< 0.005	16.1	0.062		< 0.2	< 0.04				7.92	< 10	2.9		21.9	25.6	6.9		201	< 1	5		4.19	< 0.025	< 0.02
8/22/2000		145							25	< 10	1.4				300			0.33	< 0.005	18.8	0.031							7.22		2.9		16.3	21.3	16.8		130	< 1	< 3		4.15		
12/11/2000		162							24.3	< 10	1.2				471			0.25	< 0.005	18.1	0.016							8.04		2.7		15.4	19.3	5.7		158	< 1	8		12		
5/15/2001		159		< 0.02	< 0.01	0.012		< 0.005	25.1	< 10	1.4	< 5	< 0.01	200	278	< 0.025		0.084	< 0.005	18.5	0.011		< 0.2	< 0.04				7.43	< 10	3.2		16	18.2	10.5		146	< 1	< 3		7.02	< 0.025	< 0.02
8/16/2001		159							24.7	< 10	< 0.5				260			2.4	< 0.005	18.9	0.071							7.28		3.3		15.3	14.1	35.8		162	1	68		57.6		
12/6/2001		149							23.5	< 10	1.2				237			0.53	< 0.005	17.3	0.024							7.2		2.7		15.1	20.7	10.6		172	< 1	31		7.33		
5/6/2002	159	159		< 0.02	< 0.01	0.0089		< 0.005	22.7	< 10	< 0.5	< 5	< 0.01	10000	313	< 0.025		0.16	< 0.005	17.5	0.014		< 0.2	< 0.04				7.7	< 10	2.6		14.7	15.3	21.1		215	< 1	< 3		3.91	< 0.025	< 0.02
8/8/2002		162							23.5	< 10	1.4							< 0.03	< 0.005	18	0.011							7.05		2.6		15.3	13.6			139	< 1	< 3				
12/5/2002		112			< 0.01				23.4	< 10	< 0.5				306			< 0.03		18.6	0.03							7.58		2.4		14.5	13.7	4.1		127	< 1	< 3		0.3		
5/6/2003	125	125		< 0.02	< 0.01	0.01		< 0.005	23.2	< 10	< 0.5	< 5	< 0.01	<	160	< 0.025		< 0.033	< 0.005	17.9	< 0.01		< 0.2	< 0.04		221		7.51	< 10	2.4		15.7	13.7	8.9		164	< 1	< 3		1.5	< 0.025	< 0.02
8/8/2003		158			< 0.01				23	< 10	2.3				198			< 0.033		17.8	0.011							7.54		2.5		16.6	13.5	22.1		194	< 1	< 3		1.7		
12/3/2003		98.7			< 0.01				22.5	< 10	1.5				165			< 0.03		17.2	0.027							7.53		2.5		15.4	21.5	0.6		194	< 1	< 3		2		
5/5/2004	141	141	< 0.2	0.094	< 0.01	< 0.005		< 0.005	23.8	< 10	0.61	< 5	< 0.01		333	< 0.025		< 0.03	< 0.005	18.3	< 0.01	< 0.0002	< 0.2	< 0.04		-19.6		5.45	< 10	2.5		17.1	23.5	11.6		185	< 1	< 3		0.3	< 0.025	< 0.02
8/4/2004	164	164		< 0.02	< 0.01				23.2	< 10	2.1				196			< 0.03		17.4	< 0.01							7.54		2.4		17	24.1	17.8		182	< 1	< 3		1.7		
11/30/2004	149	149		< 0.02	< 0.01				22.4	< 10	2.6				197			< 0.03		17.4	0.036							7.75		2.3		16.8	19.3	7.5		169	< 1	3		0.9		
5/6/2005		139	< 0.2	0.04	< 0.01	< 0.005		< 0.005	23	< 10	1.4	< 5	< 0.01		274	< 0.025		< 0.03	< 0.005	17.4	< 0.01		< 0.2	< 0.04		4.8		7.43	< 10	2.4		16.9	19.7	12.6		202	< 1	< 3		0.2	< 0.025	< 0.02
8/10/2005		127		0.12	< 0.01				22.3	< 10	1.5				289			< 0.03		17.1	< 0.01							7.41		2.2		16.3	18.8	27.2		165	< 1	5		2		
12/7/2005		169		< 0.02	< 0.01				21.7	< 10	1.2				206			0.071		17.2	0.11							7.03		2.2		16.7	19.3	4.2		160	< 1	< 3		6.3		
5/5/2006		146	< 0.2	0.051	< 0.01	< 0.005			23.7	< 10	1.9		< 0.01		245	< 0.025		< 0.03	< 0.005	18.2	< 0.01		< 0.2			311		7.89		2.3		17.2	25.8	17.8		183	< 1	< 4		< 0	< 0.025	< 0.02
8/24/2006		123		0.027	< 0.01				23.9	< 10	2				259			< 0.03		18.8	< 0.01									2.3		17.4	22.2	18.1		179	< 1	< 4	2.1			
12/7/2006		143		< 0.02	< 0.01				22.3		2.4							< 0.03		17.9	< 0.01									2.2		17.2	19.5	7		178	< 1	< 4	0.9			
5/4/2007		230	< 0.2	< 0.02	< 0.01	< 0.005			21.7		2.2		< 0.01		336	< 0.025		< 0.03	< 0.005	17.6	< 0.01		< 0.2			20.1		7.37		2.2		16.7	21.7	13.3		193	< 1	< 4		0.2	< 0.025	< 0.02
8/8/2007		151		0.11	< 0.01				22.3		1.6				290			< 0.03		17.2	< 0.01							7.43		2.4		16.2	20.8	20.6		113	< 1	< 4		< 0		
12/6/2007		178		0.095	< 0.01				22.3		2				277			< 0.03		17.7	0.019							7.18		2.3		17.4	25.7	1.3		208	1.1	< 4				
4/29/2008		163	< 0.2	< 0.02	< 0.01	< 0.005			23		1.9		< 0.01		334	< 0.025		0.037	< 0.005	18	< 0.01		< 0.2			-5		7.05		2.3		16.8	19.6	8.6		130	< 1	< 4		0.2	< 0.025	< 0.02
8/8/2008		178		0.17	< 0.01				23.1		2.6							< 0.03		17.9	< 0.01							7.03		2.3		16.5	19.5			176	< 1	< 4				
12/1/2008		144		< 0.02	< 0.01				23.1		2.9							< 0.03		18.5	0.027									2.2		17.5	20.6			176	< 1	< 4				
5/5/2009		156	< 0.030	< 0.020	< 0.0050	< 0.0050			24.8		3.0		< 0.0100		292	< 0.0250	5.0	< 0.030	< 0.0050	19.8	< 0.0100	< 0.0002			< 0.050		42.8	7.37			2.44		18.7	20.1	14.7		151	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/25/2009		164		0.058	< 0.0056				24.5		2.0				337		2.9	< 0.030		19.3	< 0.0100				< 0.050			7.42			2.36		16.9	21.4	19.2		174	< 1.0	< 4.0		0.1		
11/4/2009		179		< 0.020	< 0.0056				23.2		2.0				304		5.6	< 0.030		18.6	0.0189				< 0.050			7.21			2.25		17.0	21.5	7.4		182	< 1.0	< 4.0		6		
4/23/2010		175	0.047	< 0.020	< 0.0056	< 0.0050			24.3		2.8		< 0.0100		349	< 0.0250	6.9	< 0.030	< 0.0050	19.2	< 0.0100	< 0.0002			< 0.050		114	7.82			2.37		16.8	21.3	7.5		169	< 1.0	< 4.0		1.3	< 0.0250	< 0.0200
8/3/2010		159		0.092	< 0.0056				25.7		2.6				393		4.5	< 0.030		20.5	< 0.0100				< 0.050			6.72			2.31		17.2	19.3	20.4		183	< 1.0	< 4.0		0.4		
11/1/2010		165		< 0.020	< 0.0056				24.0		2.7				346		3.1	< 0.030		19.5	0.0206				< 0.050			7.31			2.38		17.3	23.9	8.1		217	< 1.0	< 4.0		0.8		
4/27/2011		172	< 0.060	< 0.020	< 0.0056	< 0.0050			25.6		3.2		< 0.010		358	< 0.025	5.4	< 0.030	< 0.0050	20.6	< 0.010	< 0.00020			< 0.050		154.1	7.40			2.4		17.0	21.2	12.1		172	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/2/2011		177			< 0.0056				26.4		0.77				427		3.7	< 0.030		21.3	< 0.010				< 0.050		60.8	7.34			2.8		17.0	19.7	19.9		187	< 1.0	< 4.0		0.8		
11/2/2011		158			< 0.0056				26.6		3.2				383		5.2	< 0.030		21.7	< 0.010				< 0.050		72.3	6.99			3.0		17.5	21.9	13.2		201	< 1.0	< 4.0		1.3		
4/23/2012		181	< 0.060		< 0.0056	0.0037			25.2		4.3		< 0.010		390	< 0.025	6.0	< 0.030	< 0.0050	20.7	0.011	< 0.00020			< 0.050		59	7.48			2.3		16.1	22.3	8.2		192	< 1.0	< 4.0		3.4	< 0.025	< 0.020
8/7/2012		181			< 0.0056				27.0		3.3				401		3.5	< 0.030		21.1	0.041				0.025		92.2	7.69			2.4		16.6	18.2	25.2		187	< 1.0	< 4.0		0		
10/29/2012		174			< 0.0056				28.8		3.5				359		3.1	< 0.030		20.9	0.0063				< 0.050		115.6	7.07			2.5		16.4	18.9	13.4		199	< 1.0	< 4.0		0.6		
4/2/2013		173	< 0.060	0.021	< 0.0056	0.0034			30.4		4.4		< 0.010		364	< 0.025	5.6	< 0.030	< 0.0050	23.9	0.0011	< 0.00020			0.041		131.8	7.70			2.7		17.9	22.6	4.6		165	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/5/2013		195			< 0.0056				29.2		4.1				383		3.5	< 0.03		23.9	0.0091				< 0.05		184.6	7.19			2.7		17.3	19.2	17		205	0.62	< 4		0.4		
10/28/2013		193			< 0.0056				28.4		3.0				376		4.3	< 0.030		23.3	0.0082				< 0.050		147.2	7.31			2.6		17.0	20.0	9.8		223	0.65	< 4.0		0.3		
5/2/2014		200	< 0.060		< 0.0056	0.0036			29.7		3.4		< 0.010		342	< 0.025	3.8	< 0.030	< 0.0050	23.9	0.0032	< 0.00020			0.035		108	7.71			2.7		17.3	20.7	16.1		197	< 1.0	< 4.0		0	< 0.025	< 0.020
8/20/2014		212		< 0.020	< 0.0056				30.8		3.7				326		0.2	0.11		25.2	0.049				0.026		118.0	7.08			2.7		17.6	18.7	20.3		204	0.55	< 4.0		0		
11/7/2014		203			< 0.0056				32.4		3.4				377		0	< 0.030		26.1	0.017				< 0.050		144.0	7.40			2.9		18.0	18.1	8.1		227	0.61	< 4.0		0		
5/18/2015		232	< 0.060		< 0.0056	0.0035			27.9		4.2		< 0.010		331	< 0.025	2.2	< 0.030	0.0043	26.2	0.0090	< 0.00020			< 0.050		184.0	7.50			2.5		15.1	19.6	13.9		235	1.2	< 4.0		0.1	< 0.025	< 0.020
8/20/2015		216			< 0.0056				34.2		4.7				286		0.9	< 0.030		27.3	0.0047				0.024		410.0	7.43			2.9		17.7	18.8	21.9		240	0.90	< 4.0		0		
11/4/2015		210			< 0.0056				34		5.0				236		1.0	< 0.030		28	0.023				< 0.050		162.0	7.00			2.9		18	19	20.3		210	< 1.0	< 4.0		1.7		
5/6/2016		240	< 0.060		< 0.0056	< 0.0050			35		4.0		< 0.010		466	< 0.025	4.4	< 0.030	< 0.0050	28	0.017	< 0.00020			< 0.050		101.7	7.24			2.9		17	18	18.8		210	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/15/2016		240			< 0.0056				38		3.8				467		2.8	< 0.030		31	< 0.010				< 0.050		137.3	7.29			2.9		18	13	23.0		220	< 1.0	< 4.0		0.6		
11/4/2016		270			< 0.0090				35		4.6				447		1.5	< 0.030		29	0.019				< 0.050		-86.7	7.19			3.0		18	12	8.4		260	< 1.0	< 4.0		0		
5/12/2017		270	< 0.050		< 0.0090	< 0.0050			39		4.7		< 0.010			< 0.025	4.4	0.035	< 0.0050	32	0.022	< 0.00020			< 0.050		86.6	7.24			3.1		19	18	11.9		250	< 1.0	< 4.0		1.1	< 0.025	< 0.020
8/16/2017		260			< 0.0090				40		4.1						2.6	< 0.030		32	< 0.010				< 0.050		167.6	7.26			2.9		18	24	19.7		270	< 1.0	< 4.0		0.3		
11/2/2017		280			< 0.0090				39		4.2						4.5	0.031		32	0.10				< 0.050		162.1	6.96			2.8		17	21	11.8		280	< 1.0	< 4.0	1.4			
5/24/2018		280	< 0.25		< 0.0090	< 0.0050			42		5.9		< 0.010			< 0.025	4.4	< 0.030	< 0.0050	34	< 0.010				< 0.050		31.4	7.02			3.0		18	23	15.3		260	< 1.0	< 4.0	4.4		< 0.025	< 0.020
8/31/2018		280	< 0.25		< 0.0090	< 0.0050			44		4.3		< 0.010			< 0.025	6.3	< 0.030	< 0.0050	37	< 0.010				< 0.050		24.6	7.66			3.1		19	15	24.9		280	< 1.0	< 4.0	1.4		< 0.025	< 0.020
11/19/2018		290	< 0.25		< 0.0090	< 0.0050			45		5.2		< 0.010			< 0.025	7.5	< 0.030	< 0.0050	38	0.085				< 0.050		190.9	7.04			3.2		19	20	5.2		260	< 1.0	< 4.0	1.4		< 0.025	< 0.020
5/20/2019		280	< 0.25		< 0.0090	< 0.0050			45		4.1		< 0.010			< 0.025	3.7	< 0.030	< 0.0050	37	< 0.010				< 0.050		86.7	7.21			3.1		18	16	14.4		280	< 1.0	< 4.0	0.9		< 0.025	< 0.020
8/5/2019		290	< 0.25		< 0.0090	< 0.0050			43		4.7		< 0.010			< 0.025	5.9	< 0.030	< 0.0050	35	< 0.010				< 0.050		177.3	7.29			3.3		17	14	31.4		380	< 1.0	< 4.0	4.8		< 0.025	< 0.020
11/8/2019		260	< 0.25		< 0.0090	< 0.0050			47		4.8		< 0.010			< 0.025	5.1	< 0.030	< 0.0050	40	0.019				< 0.050		-106.7	6.60			3.1		18	20	5.3		300	< 1.0	< 4.0	5.2		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-5B																																											
11/4/1998		59.5		0.054	0.014	0.018		< 0.005	16.3	< 10	1.8	< 5	< 0.01	< 1	134	< 0.025		2.6	< 0.005	3.8	0.098		< 0.2	< 0.04				8.82	< 1	2.7		10.8	15.9	7.7		< 5	1	82			< 0.025	0.076
12/9/1998		39.1							9	< 10					138			0.1	< 0.005	7	0.049							8.1		0.89		6.8	16	8.2			< 1	4.5		280		
5/10/1999														< 1	215													7.45						15.6						19.5		
5/26/1999		73		< 0.02	0.02	0.01		< 0.005	15.6	20.6	8.1	< 5	< 0.01	< 1		< 0.025		1.3	< 0.005	3.8	0.058	< 0.0002		< 0.04	< 0.05					2.6		10.3	9.4			74	< 1	27.5			< 0.025	< 0.02
6/24/1999																													< 10													
11/16/1999		62							15.8	< 10	1.6				90		1.8	0.96	< 0.005	3.6	0.043						8.54			2.8		10	9	6.9		84	< 1	19		< 0		
5/10/2000		54.9		0.05	0.015	0.042		< 0.005	15.6	< 10	1.7	< 5	< 0.01	< 100	215	< 0.025		4.3	< 0.005	4.5	0.11		< 0.2	< 0.04				7.45	< 10	3.3		9.1	14.4	5.4		129	< 1	89		4.94	< 0.025	0.024
8/16/2000		52.1							16.1	< 10	< 0.5				113			5.8	< 0.005	4.8	0.15							7.65		3.8		9.3	34.9	11		120	< 1	33.5		161		
12/12/2000		61.9							13.9	< 10	< 0.5				125			0.52	< 0.005	2.9	0.04							8.32		2.5		7.9	10.7	8.5		65	< 1	18.5		23		
5/14/2001		53.4		0.029	0.018	0.029		< 0.005	16.5	< 10	< 0.5	< 5	0.011	< 2	142	< 0.025		7.7	< 0.005	5.6	0.18		< 0.2	< 0.04				8.55	< 10	4.1		9.1	9.4	9.2		161	< 1	222		9.2	< 0.025	< 0.02
8/15/2001		64.3							15.9	< 10	1.2				127			1.3	< 0.005	3.6	0.06							6.54		3		8.6	8.7	11.2		53	1.4	31.5		6.77		
12/5/2001		59							7.2	< 10	1.4				188			< 0.035	< 0.005	3.6	0.077							8.54		0.69		4.8	10.6	8.9		92	< 1	26		6.07		
5/2/2002	60.1	60.1		0.058	0.013	0.021		< 0.005	15.8	< 10	2.6	< 5	< 0.01	5		< 0.025		3.7	< 0.005	4.2	0.1		< 0.2	< 0.04					< 10	3.3		7.9	3			130	< 1	31			< 0.025	< 0.02
8/7/2002		51.9							24.4	< 10	0.92							38	0.018	15.9	0.8							8.82		9.4		11.3	8.2			136	< 1	487				
12/5/2002		42.4			0.018				15.3	< 10	< 0.5				141			0.28		3.3	0.044							8.52		2.5		9.3	12.3	7.4		64	< 1	< 3		7		
5/5/2003	54.4	54.4		< 0.02	0.018	< 0.005		< 0.005	15.6	< 10	< 0.5	< 5	< 0.01	<	115	< 0.025		0.095	< 0.005	3.2	0.034		< 0.2	< 0.04		200		8.83	< 10	2.5		9.1	7.9	11.5		100	< 1	12		13.4	< 0.025	< 0.02
8/8/2003		62.2			0.013				14.7	< 10	2.1				91			< 0.033		3	0.028							8.28		2.6		8.9	6.3	15.9		95	< 1	< 3		12.9		
12/3/2003		100			0.019				14.2	< 10	1.9				72			0.061		2.9	0.046							8.58		2.5		9.5	8	7.2		111	< 1	< 3		3.5		
5/4/2004			< 0.2	< 0.02	0.018	< 0.005		< 0.005	15.6	< 10	< 0.5	< 5	< 0.01		166	< 0.025		< 0.03	< 0.005	3.1	0.034	< 0.0002	< 0.2	< 0.04		257		8.35	< 10	2.5		8.4	7.8	8.9		103	< 1	< 3		3.1	< 0.025	< 0.02
5/5/2004	70.9	70.9																																								
8/4/2004	65.5	65.5		0.027	0.019				15	< 10	2				53			0.11		3.1	0.03							8.39		2.6		10	9	11.6		89	< 1	< 3		4.8		
11/30/2004	62.7	62.7		0.039	0.02				14.7	< 10	2				104			< 0.03		3.1	0.046							8.28		2.6		11.6	6	9.3		90	< 1	< 3		< 0		
5/4/2005		59.6	< 0.2	0.045	0.02	< 0.005		< 0.005	15.2	< 10	1.6	< 5	< 0.01		144	< 0.025		< 0.03	< 0.005	3.3	0.028		< 0.2	< 0.04		63		8.47	< 10	2.7		10.4	7.1	9.8		88	< 1	< 3		2.8	< 0.025	< 0.02
12/6/2005		47.2		0.04	0.023				14.6	< 10	1.3				102			< 0.03		3.1	0.027							7.13		2.5		10.4	7.7	8.6		135	< 1	< 3		5.2		
5/5/2006		63.6	< 0.2	0.087	0.021	< 0.005			14.8	< 10	1.8		< 0.01		120	< 0.025		< 0.03	< 0.005	3.2	0.053		< 0.2			33		9.29		2.4		10.1	8.6	10.5		105	< 1	< 4		0.8	< 0.025	< 0.02
8/24/2006		58.4		0.076	0.018				14.4	< 10	2				118			< 0.03		3.1	0.028									2.4		9.2	4.5	11.2		84	< 1	< 4	1.9			
12/7/2006		66.8		0.028	0.017				14.2		2							< 0.03		3	0.03									2.3		9.1	8.5	9.4		105	< 1	< 4	0.3			
5/3/2007		60.5	< 0.2	0.035	0.019	< 0.005			14.7		1.6		< 0.01		146	< 0.025		< 0.03	< 0.005	3.2	0.03		< 0.2			-63.2		8.28		2.6		9.6	10	10.2		155	1.3	< 4		< 0	< 0.025	< 0.02
8/8/2007		73.4		0.054	0.018				14.7		1.5				137			< 0.03		3.1	0.022							7.6		2.6		10.4	7.9	11		88	< 1	< 4		< 0		
12/6/2007		67.6		0.15	0.022				14.2		1.4				133			0.056		3.1	0.026							7.95		2.6		10.9	8.9	7.3		110	< 1	< 4				
4/29/2008		61.9	< 0.2	0.033	0.018	< 0.005			14.6		1.5		< 0.01		155	< 0.025		0.097	< 0.005	3.2	0.029		< 0.2			-7		7.72		2.6		10.1	5.6	9.5		98	< 1	< 4		< 0	< 0.025	< 0.02
8/5/2008		73.9		0.23	0.018				14.9		1.8							< 0.03		3.2	0.024							7.32		2.6		10.6	6.8			81	< 1	< 4				
12/2/2008		61.7		< 0.02	0.024				15.2		1.4							< 0.03		3.4	0.028									2.5		10	8.9			85	< 1	< 4				
5/5/2009		71.3	0.034	< 0.020	0.0206	< 0.0050			14.9		2.0		< 0.0100		135	< 0.0250	1.4	0.041	< 0.0050	3.38	0.0198	< 0.0002			< 0.050		-10.7	7.75			2.72		13.3	8.51	10.3		64.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/25/2009		71.9		0.090	0.0225				14.9		1.6				154		0.8	0.032		3.33	0.0211				< 0.050			8.35			2.62		10.1	7.81	11.8		81.0	< 1.0	< 4.0		0.6		
11/5/2009		69.3		0.053	0.0198				15.1		2.7				140		0.4	< 0.030		3.20	0.0253				< 0.050			8.36			2.65		9.6	10.2	10.1		32.0	< 1.0	< 4.0		0.2		
4/23/2010		69.1	< 0.040	0.044	0.0188	< 0.0050			15.3		1.9		< 0.0100		150	< 0.0250	4.7	< 0.030	< 0.0050	3.28	0.0242	< 0.0002			< 0.050			8.16			2.71		9.8	9.85	10.3		67.0	< 1.0	< 4.0		0.6	< 0.0250	< 0.0200
8/3/2010		66.4		0.104	0.0200				15.1		1.8				173		2.5	< 0.030		3.36	0.0189				< 0.050			7.83			2.59		10.5	6.97	12.5		68.0	< 1.0	< 4.0		0.3		
11/1/2010		69.0		0.026	0.0235				15.3		1.6				155		0.6	< 0.030		3.29	0.0251				< 0.050			8.15			2.67		9.5	10.6	10.7		80.0	< 1.0	< 4.0		0.5		
4/27/2011		67.6	< 0.060	< 0.020	0.020	< 0.0050			15.3		1.7		< 0.010		154	< 0.025	0.7	< 0.030	< 0.0050	3.2	0.026	< 0.00020			< 0.050		23.3	8.31			2.6		9.3	10.2	11.6		67.0	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/2/2011		67.0			0.023				15.6		< 0.50				179		1.0	0.035		3.4	0.027				< 0.050		8.3	8.13			3.0		9.7	9.4	12.3		87.0	< 1.0	< 4.0		0.8		
11/1/2011		61.2			0.020				15.7		2.2				162		0.5	< 0.030		3.4	0.025				< 0.050		34.9	8.20			2.8		9.1	10.2	11.4		74.0	< 1.0	< 4.0		1.2		
4/23/2012		67.0	< 0.060		0.021	0.0031			14.3		2.9		< 0.010		147	< 0.025	0.9	< 0.030	< 0.0050	3.2	0.038	< 0.00020			< 0.050		-23.4	8.17			2.5		8.6	12.2	10.8		79.0	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/7/2012		71.3			0.022				14.7		2.1				160		0.9	< 0.030		3.1	0.020				0.035		134.2	7.93			2.6		9.7	7.1	12.9		81.0	< 1.0	< 4.0		0		
10/29/2012		64.7			0.018				16.9		2.3				148		0.5	0.022		3.1	0.028				< 0.050		125.2	7.78			2.7		8.4	8.6	11.8		84.0	< 1.0	< 4.0		0.9		
4/1/2013		63.7	< 0.060	0.0097	0.021	0.0027			15.2		2.6		< 0.010		148	< 0.025	0.5	< 0.030	< 0.0050	3.1	0.027	< 0.00020			0.032		-19.0	8.44			2.6		8.4	9.0	11.2		52.0	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/5/2013		71.2			0.021				15.3		2.6				150		1.5	< 0.03		3.3	0.023				0.02		49.5	7.79			2.8		9.8	8.3	12.9		75	< 1	< 4		0.4		
11/1/2013		73.3			0.022				15.5		2.4				148		0.9	0.019		3.2	0.026				< 0.050		11.7	8.40			2.9		9.2	9.3	12.1		88.0	< 1.0	< 4.0		0		
5/2/2014		72.3	< 0.060		0.022	0.0026			14.9		1.9		< 0.010		133	< 0.025	1.9	< 0.030	< 0.0050	3.3	0.017	< 0.00020			0.045		71.0	8.55			2.8		10.2	10.6	17.7		68.0	< 1.0	< 4.0		0	< 0.025	< 0.020
8/21/2014		70.9		< 0.020	0.021				14.8		1.7				113		0.1	0.047		3.2	0.015				0.048		74.0	8.14			2.7		9.9	8.0	26.7		81.0	< 1.0	< 4.0		0		
11/10/2014		61.4			0.021				15.2		1.8				125		0	0.21		3.5	0.031				0.40		36.0	8.53			2.8		10.3	8.3	17.8		99.0	< 1	< 4.0		11.6		
5/18/2015		64.8	< 0.060		0.022	0.0021			12.8		2.4		< 0.010		133	< 0.025	0.7	< 0.030	< 0.0050	3.5	0.012	< 0.00020			0.041		196.0	8.17			2.5		8.9	10	12.9		87.0	0.62	< 4.0		0	< 0.025	0.0047
8/19/2015		64.6			0.021				14.8		1.9				111		0.7	< 0.030		3.2	0.016				0.028		302.0	8.08			2.7		9.5	9.9	25.0		83.0	< 1.0	< 4.0		0		
11/4/2015		66			0.022				15		2.3				94		1.2	< 0.030		3.3	0.019				< 0.050		54.0	8.38			2.8		9.6	9.7	14.8		57	< 1.0	< 4.0		3.0		
5/3/2016		67	< 0.060		0.019	< 0.0050			16		2.1		< 0.010		144	< 0.025	0.8	< 0.030	< 0.0050	3.3	0.028	< 0.00020			< 0.050		17.8	8.08			2.8		9.1	9.6	11.6		66	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/15/2016		66			0.023				17		2.0				147		0.9	< 0.030		3.4	0.022				< 0.050		40.2	7.60			2.9		9.2	6.5	16.6		48	< 1.0	< 4.0		0.8		
11/8/2016		70			0.020				15		1.9				148		0.6	< 0.030		3.3	0.022				< 0.050		-121.4	8.20			2.8		9.6	6.6	12.4		91	< 1.0	< 4.0		0.9		
5/12/2017		69	< 0.050		0.017	< 0.0050			15		2.2		< 0.010			< 0.025	1.1	< 0.030	< 0.0050	3.2	0.023	< 0.00020			< 0.050		31.8	8.29			2.6		9.2	7.2	12.8		72	< 1.0	< 4.0		0.9	< 0.025	< 0.020
8/16/2017		66			0.021				16		1.9						1.2	< 0.030		3.2	0.022				< 0.050		117.7	8.30			2.6		9.1	10	14.2		80	< 1.0	< 4.0		0		
11/7/2017		70			0.021				14		2.6						3.3	< 0.030		2.9	0.020				< 0.050		29.8	8.15			2.8		9.0	7.5	10.7		86	< 1.0	< 4.0	1.0			
5/2/2018		69	< 0.25		0.017	< 0.0050			14		2.7		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	3.0	0.022				< 0.050		-30.1	7.96			2.4		8.3	12	15.4		81	< 1.0	< 4.0	0.2		< 0.025	< 0.020
8/23/2018		66	< 0.25		0.019	< 0.0050			15		2.7		< 0.010			< 0.025	0.9	< 0.030	< 0.0050	3.1	0.021				< 0.050		38.9	8.05			2.5		8.3	8.7	13.9		70	< 1.0	< 4.0	0.5		< 0.025	< 0.020
11/8/2018		67	< 0.25		0.021	< 0.0050			14		1.9		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	3.1	0.014				< 0.050		132.0	7.84			2.6		9.4	< 5.0	11.0		98	< 1.0	< 4.0	1.0		< 0.025	< 0.020
5/20/2019		67	< 0.25		0.018	< 0.0050			16		2.0		< 0.010			< 0.025	0.9	< 0.030	< 0.0050	3.4	0.024				< 0.050		44.6	8.40			2.8		9.2	6.8	14.2		76	< 1.0	< 4.0	3.5		< 0.025	< 0.020
8/5/2019		69	< 0.25		0.019	< 0.0050			15		1.9		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	3.2	0.015				< 0.050		3.0	8.54			2.8		9.2	5.5	15.9		470	< 1.0	< 4.0	0		< 0.025	< 0.020
11/8/2019		64	< 0.25		0.021	< 0.0050			15		2.4		< 0.010			< 0.025	0.9	< 0.030	< 0.0050	3.3	0.020				< 0.050		-159.7	7.58			2.5		9.0	8.3	7.8		140	< 1.0	< 4.0	0.4		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-5E																																											
11/4/1998		82.3		< 0.02	0.018	0.039		< 0.005	10.7	< 10	2	< 5	< 0.01	< 1	203	< 0.025		1.6	0.0053	6.8	0.34		< 0.2	< 0.04				7.74	< 2	3.5		34.2	45.2	10.7		121	2.7	6.5			< 0.025	0.024
12/9/1998		78.3							14.5	< 10	1.4				176			0.46	< 0.005	5.8	0.033							7.31		1.4		8.2	4.4	9.7		100	< 1	3		7.83		
5/10/1999														< 1	80													7.91						15.7						5.38		
5/26/1999		65		< 0.02	< 0.01	0.0051		< 0.005	7.3	15.3	6.1	< 5	< 0.01	< 1		< 0.025		0.2	< 0.005	4.3	0.024	< 0.0002		< 0.04	< 0.05					0.81		6.1	3.5			47	< 1	< 3			< 0.025	< 0.02
6/24/1999																													< 10													
11/16/1999		44							8.1	< 10	1.1				54		2.1	< 0.03	< 0.005	4	0.03						7.87			< 0.79		4.9	1.8	8.2		54	2	< 3		< 0		
5/10/2000		41		< 0.02	< 0.01	< 0.005		< 0.005	7.4	< 10	1.2	< 5	< 0.01	<	303	< 0.025		0.066	< 0.005	3.8	0.011		< 0.2	< 0.04				7.22	< 10	0.71		5	2.4	5.6		78	< 1	< 3		16.7	< 0.025	< 0.02
8/16/2000		39.4							7.2	< 10	1.3				114			0.069	< 0.005	3.6	0.027							7.88		0.71		4.2	5.4	22.3		47	< 1	< 3		9.5		
12/11/2000		39.6							7.4	< 10	1.4				113			0.17	< 0.005	3.6	0.051							8.83		0.75		4.8	6.3	5.7		47	< 1	< 3		16		
5/15/2001		45.4		0.028	< 0.01	< 0.005		< 0.005	7.9	< 10	2	< 5	< 0.01	200	79	< 0.025		< 0.03	< 0.005	3.8	0.013		< 0.2	< 0.04				7.76	< 10	0.83		4.8	4.4	9.4		41	< 1	< 3		2.88	< 0.025	< 0.02
8/15/2001		45.1							8.3	< 10	0.99				90			< 0.03	< 0.005	3.8	0.035							6.59		0.82		5	4	30.4		26	1.6	< 3		33.8		
12/5/2001		41.4							14	< 10	1.4				133			1	< 0.005	3.2	0.05							6.91		2.6		8.6	1.2	8.1		84	< 1	< 3		8.76		
5/6/2002	46.4	46.4		< 0.02	< 0.01	< 0.005		< 0.005	7.3	< 10	1.3	< 5	< 0.01	138	84	< 0.025		0.14	< 0.005	3.7	0.11		< 0.2	< 0.04				8.09	< 10	0.74		4.6	5	13.9		67	< 1	< 3		5.79	< 0.025	< 0.02
8/7/2002		31.7							7.8	< 10	23.4							0.21	< 0.005	3.8	0.31							8.54		0.69		4.4	3.3			68	< 1	< 3				
12/5/2002		26.4			0.012				8	< 10	1.3				88			< 0.03		4	0.048							8.34		0.72		4.8	1.8	2.5		34	< 1	< 3		< 0		
5/5/2003	36.7	36.7		< 0.02	0.012	0.0056		< 0.005	7.6	< 10	1.4	< 5	< 0.01	<		< 0.025		0.045	< 0.005	3.8	0.026		< 0.2	< 0.04					< 10	0.68		4.5	2.1			64	< 1	< 3			< 0.025	< 0.02
8/8/2003		36.1			< 0.01				7.5	< 10	1.4				59			< 0.033		3.7	0.023							8.43		0.67		4.3	1.9	20.9		55	< 1	< 3		1.5		
12/3/2003		72.3			< 0.01				7.5	< 10	2				70			0.065		3.6	0.12							7.94		0.7		4.4	< 1	3.3		52	< 1	< 3		2.4		
5/4/2004	44.8	44.8	< 0.2	0.11	< 0.01	< 0.005		< 0.005	7.7	< 10	0.99	< 5	< 0.01		117	< 0.025		< 0.03	< 0.005	3.8	0.013	< 0.0002	< 0.2	< 0.04		261		7.7	< 10	0.65		4.4	2	6.8		80	< 1	< 3		0.9	< 0.025	< 0.02
8/4/2004	40.6	40.6		< 0.02	0.01				7.5	< 10	3.2				56			< 0.03		3.6	0.024							8.42		0.64		4.2	9.4	15.4		48	< 1	< 3		1.6		
11/30/2004	16.5	16.5		< 0.02	< 0.01				8.1	< 10	2.7				69			< 0.03		3.8	0.066							8.49		0.65		4.8	51.6	9.9		70	< 1	< 3		< 0		
5/4/2005		41.4	< 0.2	0.024	0.011	< 0.005		< 0.005	8.3	< 10	2.8	< 5	< 0.01		88	< 0.025		< 0.03	< 0.005	4.3	0.012		< 0.2	< 0.04		99		8.35	< 10	0.73		5.2	< 1	9.1		61	< 1	< 3		2.2	< 0.025	< 0.02
8/9/2005		36.4		0.11	< 0.01				7.5	< 10	2.7				91			< 0.03		3.6	0.037							8.16		0.55		4.4	< 1	23.4		70	< 1	< 3		2.8		
12/6/2005		37.4		< 0.02	0.012				8	< 10	3				78			< 0.03		3.9	0.13							7.59		0.64		4.4	< 1	3.8		64	< 1	< 3		5		
5/5/2006		39.8	< 0.2	0.029	0.01	< 0.005			8.4	< 10	3.2		< 0.01		74	< 0.025		0.11	< 0.005	4.2	0.22		< 0.2			278		8.73		0.7		4.5	3.8	14.6		76	< 1	< 4		0.5	< 0.025	< 0.02
8/24/2006		37.1		0.04	< 0.01				7.9	< 10	3.5				85			< 0.03		4	0.094									0.59		4.2	< 1	17.2		213	< 1	< 4	0.8			
12/7/2006		43		0.022	0.01				8.1		3.7							< 0.03		4.1	0.098									0.63		4.9	1.1	7.7		176	< 1	< 4	0.1			
5/3/2007		39.3	< 0.2	< 0.02	< 0.01	< 0.005			8.5		3.7		< 0.01		102	< 0.025		< 0.03	< 0.005	4.3	0.039		< 0.2			-1.1		8.02		0.65		4.9	3	13.9		129	1.3	< 4		0.1	< 0.025	< 0.02
8/7/2007		41		0.023	0.012				8.8		3.7				103			< 0.03		4.3	0.12							7.89		0.66		4.6	< 1	19.3		58	< 1	< 4		1.2		
12/6/2007		45.3		0.11	0.012				9.1		3.9				108			0.038		4.6	0.21							7.9		0.76		5.1	1.6	2		75	< 1	< 4				
4/29/2008		41.3	< 0.2	0.028	< 0.01	< 0.005			9.1		3.4		< 0.01		108	< 0.025		< 0.03	< 0.005	4.6	0.015		< 0.2			6		7.33		0.66		4.8	< 1	8.4		27	< 1	< 4		< 0	< 0.025	< 0.02
8/5/2008		53.1		0.24	< 0.01				9.1		4							< 0.03		4.6	0.17							7.97		0.65		5.1	< 1			61	< 1	< 4				
12/2/2008		44.6		< 0.02	0.013				9.8		3.6							< 0.03		5	0.16									0.73		5.2	1.5			52	< 1	< 4				
5/5/2009		51.0	< 0.030	< 0.020	0.0102	< 0.0050			10.6		3.7		< 0.0100		103	< 0.0250	3.0	< 0.030	< 0.0050	5.46	0.0206	< 0.0002			< 0.050		-17.1	7.92		0.739		5.6	1.96	9.7		29.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/25/2009		56.5		0.076	0.0089				10.5		3.9				141		2.8	< 0.030		5.45	0.225				< 0.050			8.22		0.758		5.5	< 1.49	18.5		101	< 1.0	< 4.0		0.2		
11/5/2009		54.3		0.049	0.0103				11.0		4.9				124		3.6	< 0.030		5.58	0.195				< 0.050			7.36		0.869		5.9	1.49	7.4		41.0	< 1.0	< 4.0		0.2		
4/23/2010		56.4	< 0.040	< 0.020	0.0075	< 0.0050			10.6		4.3		< 0.0100		125	< 0.0250	9.2	0.033	< 0.0050	5.42	0.0200	< 0.0002			< 0.050		132	7.64		0.724		5.4	2.99	8.9		56.0	< 1.0	< 4.0		1.1	< 0.0250	< 0.0200
8/3/2010		58.5		0.088	0.0090				11.3		4.1				166		1.8	< 0.030		5.86	0.195				< 0.050			8.35		0.692		5.6	< 1.49	20.5		68.0	< 1.0	< 4.0		0.6		
11/1/2010		66.1		0.021	0.0140				11.6		3.4				145		2.8	0.033		6.00	0.181				< 0.050			8.18		0.878		5.8	3.42	10		104	< 1.0	< 4.0		0.7		
4/27/2011		62.3	0.10	< 0.020	0.010	< 0.0050			12.0		3.6		< 0.010		137	< 0.025	4.0	< 0.030	< 0.0050	6.1	< 0.010	< 0.00020			< 0.050		159.7	7.98		0.86		5.5	6.4	12.0		65.0	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/2/2011		62.8			0.010				11.9		2.4				168		2.6	< 0.030		6.2	0.20				< 0.050		36.1	8.08		1.0		5.7	< 1.5	19.0		74.0	< 1.0	< 4.0		0.4		
11/1/2011		59.5			0.010				12.2		3.7				166		3.4	0.033		6.4	0.14				< 0.050		78.0	7.98		0.96		5.8	2.7	11.4		72.0	< 1.0	< 4.0		1.2		
4/23/2012		70.8	< 0.060		0.0099	0.0010			12.2		4.5		< 0.010		139	< 0.025	4.5	< 0.030	< 0.0050	6.7	0.0097	< 0.00020			< 0.050		68.8	6.94		0.82		5.5	6.5	8.6		82.0	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/7/2012		49.8			0.010				12.4		3.8				168		2.5	< 0.030		6.3	0.16				< 0.050		94.5	8.07		0.87		5.8	< 1.5	24.3		79.0	< 1.0	< 4.0		0.9		
10/29/2012		62.8			0.011				14.2		3.9				159		2.2	0.042		6.5	0.13				< 0.050		105.9	7.94		0.93		5.9	3.0	13.4		87.0	< 1.0	< 4.0		0.6		
4/1/2013		67.1	< 0.060	< 0.020	0.010	0.00076			13.7		4.1		< 0.010		147	< 0.025	5.2	< 0.030	< 0.0050	7.1	0.0089	< 0.00020			0.045		111.6	7.82		0.89		5.8	4.2	8.8		57.0	< 1.0	< 4.0		0.5	< 0.025	< 0.020
8/5/2013		60.3			0.0092				12.9		3.9				166		2.8	< 0.03		6.9	0.17				< 0.05		95	7.88		0.91		6	2.4	18.6		83	0.43	< 4		0.2		
11/1/2013		72.4			0.012				13.6		4.0				170		4.5	0.029		7.0	0.13				< 0.050		109.0	8.16		1.0		6.4	4.1	15.3		96.0	0.63	< 4.0		0.2		
5/2/2014		83.2	< 0.060		0.0078	0.0014			14.5		2.9		< 0.010		137	< 0.025	2.1	0.087	< 0.0050	8.1	0.028	< 0.00020			0.023		101.0	8.42		0.99		6.1	9.2	14.1		75.0	< 1.0	< 4.0		7.9	< 0.025	< 0.020
8/21/2014		79.0		0.011	0.0090				14.4		3.0				119		0	< 0.030		7.7	0.073				0.037		83.0	8.20		0.85		6.0	1.8	22.3		84.0	< 1.0	< 4.0		0		
11/10/2014		77.8			0.010				15.0		2.9				141		0	0.024		8.2	0.19				0.021		-46.0	8.57		1.0		6.4	8.6	12.2		126	< 1	< 4.0		0		
5/18/2015		73.4	< 0.060		0.0089	0.00080			13.1		3.4		< 0.010		133	< 0.025	0.9	< 0.030	< 0.0050	8.7	0.026	< 0.00020			< 0.050		228.0	7.57		0.84		5.5	4.5	10.9		99.0	0.63	< 4.0		0	< 0.025	0.0016
8/19/2015		90.2			0.011				14.8		2.8				100		0.1	< 0.030		7.9	0.086				< 0.050		349.0	7.35		1.1		6.2	5.0	25.0		89.0	0.53	< 4.0		9.1		
11/4/2015		100			0.0078				17		3.1				117		0.9	0.046		10	0.25				< 0.050		100.0	7.94		1.3		6.5	3.6	17.3		82	< 1.0	< 4.0		2.0		
5/6/2016		80	< 0.060		0.014	< 0.0050			14		2.6		< 0.010		160	< 0.025	3.9	0.036	< 0.0050	7.2	0.022	< 0.00020			< 0.050		117.2	7.63		1.0		6.1	4.1	15.4		44	< 1.0	< 4.0		0.7	< 0.025	< 0.020
8/15/2016		75			0.010				15		2.8				177		1.8	< 0.030		7.5	0.14				< 0.050		35.3	7.86		0.96		6.2	2.1	23.4		59	< 1.0	< 4.0		1.2		
11/8/2016		78			0.010				15		2.7				178		1.9	< 0.030		7.8	0.22				< 0.050		-114.9	8.33		1.0		6.7	< 5.0	14.8		78	< 1.0	< 4.0		0		
5/9/2017		92	< 0.050		0.0097	< 0.0050			17		2.8		< 0.010			< 0.025	2.0	< 0.030	< 0.0050	9.4	0.036	< 0.00020			< 0.050		24.2	7.93		1.0		6.7	< 5.0	10.9		110	< 1.0	< 4.0		1.4	< 0.025	< 0.020
8/16/2017		78			0.011				15		2.3						2.4	0.062		7.5	0.24				< 0.050		123.7	8.40		0.90		6.3	< 5.0	18.2		68	< 1.0	< 4.0		0		
11/7/2017		82			0.011				14		3.2						4.8	< 0.030		7.3	0.21				< 0.050		31.0	8.14		1.0		6.5	< 5.0	10.3		94	< 1.0	< 4.0	1.7			
5/2/2018		92	< 0.25		< 0.0090	< 0.0050			15		2.8		< 0.010			< 0.025	2.7	< 0.030	< 0.0050	8.6	0.033				< 0.050		18.9	7.70		0.90		5.9	5.2	14.2		84	< 1.0	< 4.0	0.6		< 0.025	< 0.020
8/23/2018		73	< 0.25		0.0096	< 0.0050			15		2.3		< 0.010			< 0.025	4.6	< 0.030	< 0.0050	7.5	0.11				< 0.050		57.6	7.41		0.91		6.0	< 5.0	20.9		78	< 1.0	< 4.0	2.2		< 0.025	< 0.020
11/8/2018		83	< 0.25		0.011	< 0.0050			15		1.5		< 0.010			< 0.025	2.6	< 0.030	< 0.0050	7.3	0.21				< 0.050		148.9	7.82		0.97		6.2	< 5.0	12.5		100	< 1.0	< 4.0	1.3		< 0.025	< 0.020
5/20/2019		89	< 0.25		0.011	< 0.0050			16		1.3		< 0.010			< 0.025	2.0	< 0.030	< 0.0050	8.5	0.045				< 0.050		65.6	8.16		0.92		6.1	< 5.0	13.6		84	< 1.0	< 4.0	3.9		< 0.025	< 0.020
8/5/2019		78	< 0.25		0.010	< 0.0050			15		2.0		< 0.010			< 0.025	1.5	< 0.030	< 0.0050	7.8	0.047				< 0.050		38.1	8.42		1.0		6.1	< 5.0	22.9		84	< 1.0	< 4.0	0		< 0.025	< 0.020
11/8/2019		100	< 0.25		0.013	< 0.0050			18		2.1		< 0.010			< 0.025	2.7	< 0.030	< 0.0050	10	0.12				< 0.050		-122.3	6.92		1.1		6.3	< 5.0	5.2		84	< 1.0	< 4.0	2.6		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W11-6E																																											
11/5/1998		40.3		< 0.02	< 0.01	0.023		< 0.005	10.1	< 10	13.8	< 5	< 0.01	< 1	138	< 0.025		0.13	< 0.005	6.4	0.092		< 0.2	< 0.04				6.49	< 2	1.1		7.5	9.5	9.7		< 5	< 1	21			< 0.025	< 0.02
12/9/1998		51.5							47.2	< 10	12.9				128			0.08	< 0.005	7.5	< 0.01							7.21		0.67		5.2	70.4	7.2		197	2.2	< 3		3.06		
5/10/1999														< 1	138													6.96						15.3						1.94		
5/26/1999		40		< 0.02	< 0.01	< 0.005		< 0.005	9.2	29.1	73.3	< 5	< 0.01	< 1		< 0.025		< 0.03	< 0.005	7.3	0.036	< 0.0002		< 0.04	0.19					0.77		7	5240			68	< 1	< 3			< 0.025	< 0.02
6/24/1999																													< 10													
11/16/1999		44							10.4	< 10	14.6				90		2	< 0.03	< 0.005	7.9	0.025						6.99			0.95		8.2	2.8	7.2		85	< 1	< 3		< 0		
5/9/2000		52.7		< 0.02	< 0.01	< 0.005		< 0.005	10.5	< 10	14.8	< 5	< 0.01	<	164	< 0.025		< 0.03	< 0.005	7.8	0.023		< 0.2	< 0.04				6.27	< 10	0.96		10.4	2	9.5		100	< 1	12		0.95	< 0.025	< 0.02
8/22/2000		45.2							10.2	< 10	14.2				131			< 0.03	< 0.005	8.1	0.026							6.54		0.94		7.5	2	16.8		42	< 1	< 3		0.84		
12/11/2000		44.6							9.7	< 10	16.6				176			< 0.03	< 0.005	7.6	0.015							8.49		0.94		6.5	5.6	7		80	< 1	< 3		1.1		
5/15/2001		54		< 0.02	< 0.01	< 0.005		< 0.005	10.2	< 10	14.9	< 5	< 0.01	<	163	< 0.025		0.03	< 0.005	8.1	0.017		< 0.2	< 0.04				6.96	< 10	1		7.9	2.6	9.2		53	< 1	< 3		9.2	< 0.025	< 0.02
8/16/2001		51.7							10.3	< 10	13.8				128			0.03	< 0.005	8.2	0.021							7.06		1		7	2.3	29.3		104	< 1	< 3		4.22		
12/5/2001		49.9							10.4	< 10	15.6				180			< 0.035	< 0.005	8.5	0.024							6.93		1		7.6	1.5	10.4		116	< 1	< 3		6.83		
5/2/2002	58	58		< 0.02	< 0.01	0.011		< 0.005	10.5	< 10	15.8	< 5	< 0.01	2	189	< 0.025		0.063	< 0.005	8.3	0.014		< 0.2	< 0.04				7.2	< 10	0.91		7.9	3.4	7.8		120	< 1	< 3		1.54	< 0.025	< 0.02
8/8/2002		56.1							11.2	< 10	15.6							< 0.03	< 0.005	8.9	0.013							7.74		0.94		7	< 1			103	< 1	< 3				
12/5/2002		39.8			< 0.01				12.6	< 10	14.6				167			< 0.03		10.2	0.026							8.02		0.99		7.3	< 1	6.3		89	< 1	< 3		2.8		
5/5/2003	52	52		< 0.02	< 0.01	0.0073		< 0.005	11.9	< 10	16.4	< 5	< 0.01	<	147	< 0.025		< 0.033	< 0.005	9.5	< 0.01		< 0.2	< 0.04		165		6.69	< 10	0.89		7.1	< 1	16.6		112	< 1	< 3		0.5	< 0.025	< 0.02
8/7/2003		61.5			< 0.01				12.5	< 10	15.4				150			< 0.033		10	0.01							6.69		1		7.6	2.8	23.3		110	< 1	< 3		< 0		
12/3/2003		194			< 0.01				13.2	< 10	20.2				134			0.036		10.4	0.014							7.17		1.1		8	< 2	3.5		142	< 1	< 3		2.5		
5/4/2004	82.4	82.4	< 0.2	< 0.02	< 0.01	< 0.005		< 0.005	15.2	< 10	17	< 5	< 0.01		174	< 0.025		< 0.03	< 0.005	12.2	< 0.01	< 0.0002	< 0.2	< 0.04		290		6.79	< 10	1		8.1	3.7	8.5		143	< 1	< 3		1.3	< 0.025	< 0.02
8/4/2004	74.7	74.7		< 0.02	< 0.01				14.4	< 10	18.3				116			< 0.03		11.7	0.011							7.19		1		8	5.1	15.9		124	< 1	< 3		1.7		
11/30/2004	44.7	44.7		< 0.02	< 0.01				15.5	< 10	18.3				143			< 0.03		12.5	0.023							6.93		1.2		8.3	5	10		115	< 1	< 3		< 0		
5/6/2005		78.1	< 0.2	0.086	< 0.01	< 0.005		< 0.005	14.1	< 10	12.8	< 5	< 0.01		207	< 0.025		< 0.03	< 0.005	11.3	< 0.01		< 0.2	< 0.04		12.2		6.45	< 10	0.96		9.1	9.2	11.9		145	< 1	< 3		0.1	< 0.025	< 0.02
8/9/2005		73.4		0.1	< 0.01				15.6	< 10	14.8				203			< 0.03		12.4	0.011							6.33		0.97		9.2	4.7	26		152	< 1	< 3		2.1		
12/6/2005		80.1		< 0.02	< 0.01				17.2	< 10	13.8				158			< 0.03		13.9	0.014							5.95		1.1		9.6	7.6	7.4			< 1			5.7		
5/5/2006		90.3	< 0.2	0.05	< 0.01	< 0.005			17.4	< 10	10.4	< 5	< 0.01		191	< 0.025		< 0.03	< 0.005	14.2	< 0.01		< 0.2			287		6.66		1.1		8.8	11.5	14.3		132	< 1	< 4		2.3	< 0.025	< 0.02
8/24/2006		74.1		< 0.02	< 0.01				17.7	< 10	11.4				167			< 0.03		14.6	0.017									1.1		8.4	6.4	18.4		120	< 1	< 4	1.6			
12/7/2006		98.4		< 0.02	< 0.01				16.9		12.4							< 0.03		13.9	0.02									1.1		8.5	10.9	9.6		93	< 1	< 4	0.7			
5/4/2007		155	< 0.2	< 0.02	< 0.01	< 0.005			16.6		9.5	< 5	< 0.01		266	< 0.025		< 0.03	< 0.005	14	< 0.01		< 0.2			85.3		6.33		0.95		8.1	15	15.1		195	< 1	< 4		0.2	< 0.025	< 0.02
8/8/2007		99		0.062	< 0.01				17.9		9.7				232			< 0.03		14.4	0.015							7.38		1.1		8	8	20.1		104	< 1	< 4		< 0		
12/6/2007		98.2		0.085	< 0.01				18		10				218			< 0.03		14.6	0.018							6.93		1.1		8.3	12	3.6		178	1.2	< 4				
4/29/2008		102	< 0.2	< 0.02	< 0.01	< 0.005			18.2		5.6	< 5	< 0.01		268	< 0.025		< 0.03	< 0.005	14.8	< 0.01		< 0.2			5		6.29		1.1		8.5	13.1	8.9		92	< 1	< 4		< 0	< 0.025	< 0.02
8/8/2008		94.6		0.17	< 0.01				18.5		7.8							< 0.03		15	< 0.01							6.79		1.1		8.6	11.2			171	< 1	< 4				
12/1/2008		97.3		< 0.02	< 0.01				19		6.4							< 0.03		15.4	< 0.01									1.1		9.2	13.4			142	< 1	< 4				
5/5/2009		101	< 0.030	< 0.020	< 0.0050	< 0.0050			19.6		5.5	< 5.0	< 0.0100		235	< 0.0250	3.6	< 0.030	< 0.0050	16.3	< 0.0100	< 0.0002				0.941		43.2	6.32		1.09		9.0	15.1	11.7		124	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/25/2009		113		0.064	< 0.0056				19.2		5.6				256		3.6	< 0.030		15.9	< 0.0100					0.944			6.60		1.13		8.8	16.4	20.8		142	< 1.0	< 4.0		0.2		
11/5/2009		141		< 0.020	< 0.0056				19.9		5.7				238		2.2	< 0.030		16.1	0.0108					1.01			6.46		1.20		9.1	19.2	7.8		104	< 1.0	< 4.0		0.2		
4/23/2010		112	< 0.040	< 0.020	< 0.0056	< 0.0050			18.6		5.3	< 5.0	< 0.0100		273	< 0.0250	10.4	< 0.030	< 0.0050	15.3	< 0.0100	< 0.0002				0.970		144	6.42		1.04		8.1	17.5	8.1		122	< 1.0	< 4.0		0.6	< 0.0250	< 0.0200
8/3/2010		96.5		0.153	< 0.0056				20.5		5.1				291		2.6	< 0.030		17.2	< 0.0100					1.01			7.15		1.06		9.0	18.5	19.2		141	< 1.0	< 4.0		0.5		
11/1/2010		125		< 0.020	< 0.0056				21.0		4.9				271		2.9	< 0.030		17.3	0.0117					1.07			5.65		1.24		9.4	22.8	8.3		200	< 1.0	< 4.0		0.6		
4/27/2011		115	< 0.060	< 0.020	< 0.0056	< 0.0050			20.8		4.3	< 5.0	< 0.010		287	< 0.025	3.8	< 0.030	< 0.0050	17.1	< 0.010	< 0.00020				0.91		177.9	6.30		1.2		8.9	18.3	11.3		129	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/2/2011		122			< 0.0056				21.1		2.3				322		2.7	< 0.030		17.8	< 0.010					1.0		72.6	6.27		1.4		9.0	19.9	19.0		156	< 1.0	< 4.0		0.9		
11/2/2011		115			< 0.0056				22.2		4.1				305		3.8	< 0.030		18.6	< 0.010					0.96		89.5	6.29		1.5		9.4	23.4	13.5		165	< 1.0	< 4.0		1.2		
4/23/2012		104	< 0.060		< 0.0056	0.0030			19.8		4.9	< 5.0	< 0.010		318	< 0.025	3.7	0.020	< 0.0050	16.8	0.0070	< 0.00020				0.72		79	6.29		1.1		8.4	20.4	8.8		147	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/8/2012		131			< 0.0056				21.6		3.8				270		5.3	< 0.030		18.0	0.010					0.79		14.9	6.77		1.3		9.7	18.7	26.4		143	< 1.0	< 4.0		0.5		
10/30/2012		125			< 0.0056				20.7		3.5				326		3.9	< 0.030		17.6	0.012					0.87		85.1	5.68		1.2		9.1	20.9	15.0		165	< 1.0	< 4.0		0.9		
4/2/2013		111	< 0.060	0.054	< 0.0056	0.0026			21.9		3.9	< 5.0	< 0.010		266	< 0.025	3.2	< 0.030	0.0030	17.8	0.0069	< 0.00020				0.62		132.4	6.48		1.3		8.9	20.7	5.9		153	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/6/2013		121			< 0.0056				22.7		3.6				289		2.9	< 0.03		18.2	0.012					0.56		123.8	6.39		1.3		9.7	23.1	22.3		144	0.83	< 4		0.1		
10/31/2013		133			< 0.0056				20.8		2.8				269		4.8	< 0.030		18.4	0.011					0.60		198.5	6.28		1.2		9.1	23.1	7.3		123	0.98	< 4.0		0.3		
5/5/2014		147	< 0.060		< 0.0056	0.0025			21.4		2.9	< 5.0	< 0.010		265	< 0.025	1.7	< 0.030	< 0.0050	17.8	0.0062	< 0.00020				0.43		198	6.42		1.2		9.2	22.8	10.3		169	< 1.0	< 4.0		0	< 0.025	0.0025
8/21/2014		129		< 0.020	< 0.0056				21.2		2.9				184		0	< 0.030		17.2	0.011					0.40		187.0	6.17		1.2		8.6	21.0	27.3		136	< 1.0	< 4.0		0		
11/10/2014		120			< 0.0056				21.3		2.4				250		0.8	< 0.030		17.7	0.0087					0.46		165	6.24		1.3		9.6	23.0	12.4		195	0.64	< 4.0		0		
5/18/2015		124	< 0.060		< 0.0056	0.0024			20.2		2.8	< 5.0	< 0.010		213	< 0.025	1.9	< 0.030	0.0035	17.3	0.0073	< 0.00020				0.35		258.0	6.78		1.2		8.5	20.4	11.4		164	0.89	< 4.0		0.6	< 0.025	< 0.020
8/19/2015		123			< 0.0056				20.5		2.6				230		0	< 0.030		16.4	0.0092					0.42		203.0	6.25		1.3		8.7	21.4	20.4		150	0.86	< 4.0		0		
11/4/2015		120			< 0.0056				21		3.1				167		1.0	< 0.030		17	0.016					0.35		179.0	6.26		1.3		8.8	21	14.6		130	< 1.0	< 4.0		0		
5/3/2016		130	< 0.060		< 0.0056	< 0.0050			22		2.1	< 5.0	< 0.010		276	< 0.025	3.4	< 0.030	< 0.0050	18	< 0.010	< 0.00020				0.40		162.3	6.40		1.2		8.9	20	10.8		150	< 1.0	< 4.0		0.7	< 0.025	< 0.020
8/24/2016		110			< 0.0056				21		1.7				267		5.7	< 0.030		17	< 0.010					0.45		291.3	6.09		1.2		9.0	18	26.4		130	< 1.0	< 4.0		0		
11/7/2016		130			< 0.0090				21		1.6				268		7.3	< 0.030		17	0.011					0.45		146.8	6.27		1.2		9.3	18	8.5		140	< 1.0	< 4.0		1.2		
5/9/2017		150	< 0.050		< 0.0090	< 0.0050			22		2.4	< 5.0	< 0.010			< 0.025	0.7	< 0.030	< 0.0050	19	< 0.010	< 0.00020				0.44		152.7	6.17		1.2		9.0	22	11.3		170	< 1.0	< 4.0		2.7	< 0.025	< 0.020
8/16/2017		100			< 0.0090				21		1.7						2.6	< 0.030		17	< 0.010					0.60		210.3	6.43		1.2		8.8	23	22.0		140	< 1.0	< 4.0		0.2		
11/2/2017		120			< 0.0090				21		2.0						4.8	< 0.030		17	0.011					0.68		178.6	6.43		1.3		8.7	24	12.3		190	< 1.0	< 4.0	2.8			
5/24/2018		120	< 0.25		< 0.0090	< 0.0050			20		2.0	< 1.0	< 0.010			< 0.025	2.8	< 0.030	< 0.0050	17	< 0.010					0.61		45.9	6.20		1.1		8.0	22	16.7		140	< 1.0	< 4.0	3.2		< 0.025	< 0.020
8/22/2018		110	< 0.25		< 0.0090	< 0.0050			20		2.1		< 0.010			< 0.025	2.4	< 0.030	< 0.0050	16	0.012					0.79		90.0	5.90		1.1		8.3	22	17.7		150	< 1.0	< 4.0	1.5		< 0.025	< 0.020
11/19/2018		110	< 0.25		< 0.0090	< 0.0050			19		2.5		< 0.010			< 0.025	2.9	< 0.030	< 0.0050	16	0.017					0.84		113.5	5.78		1.2		7.7	24	8.0		130	< 1.0	< 4.0	1.9		< 0.025	< 0.020
5/3/2019		110	< 0.25		< 0.0090	< 0.0050			21		2.4	< 1.0	< 0.010			< 0.025		< 0.030	< 0.0050	17	0.020					0.89			6.24		1.1		7.8	18	7.2		81	< 1.0	< 4.0			< 0.025	< 0.020
8/5/2019		110	< 0.25		< 0.0090	< 0.0050			19		2.0		< 0.010			< 0.025	6.3	< 0.030	< 0.0050	15	0.010					1.4		-83.6	6.42		1.2		7.4	17	26.3		140	< 1.0	< 4.0	2.6		< 0.025	< 0.020
11/19/2019		65	< 0.25		< 0.0090	< 0.0050			22		2.5		< 0.010			< 0.025	3.3	< 0.030	< 0.0050	18	0.017					< 0.050		-150.1	6.60		1.5		9.1	19	13.3		130	< 1.0	< 4.0	0		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-1B																																											
4/30/2002	96.1	96.1	0.12	< 0.02	0.013	0.0092	4.4	< 0.005	28.1	< 10	1.5	< 0.14	< 0.01		206	< 0.025		< 0.035	< 0.005	5.2	0.21		< 0.2	< 0.04				7.83		5.3	< 0.01	4.7	7.6	6.1	< 0.01	135	1.9	< 3		0.64	< 0.025	< 0.02
6/10/2002	94.2	94.2	0.062	< 0.02	0.011	0.016	< 2	< 0.005	29.2	< 10	1.2	< 1	< 0.01		146	< 0.025		0.044	< 0.005	5.3	0.24		< 0.2	< 0.04				8.06		4.4	< 0.01	2.9	8.3	8.6	< 0.01	120	1.4	< 3		3.25	< 0.025	< 0.02
7/16/2002	84.7	84.7	< 0.03	< 0.02	< 0.01	0.015	< 2		28.4	< 10	1.3				209			0.067		5.3	0.24							8.41		4.2		3.3	7.1	10.4		93	1.7	< 3		< 0		< 0.02
8/14/2002	102	102	< 0.032	< 0.02	0.01	0.0075	< 2		28.5	< 10	1.5				222			0.063		5.2	0.22					38		7.84		4.3		3.3	5.9	12.8		179	1.2	< 3		< 0		< 0.02
12/9/2002		69.4			< 0.01				28	< 10	1.2				168			0.07		5.3	0.33							8.44		4.3		3.7	4.6	5.2		110	1.1	< 3		0.9		
5/7/2003	76.4	76.4		< 0.02	0.012	0.0068		< 0.005	30.2	< 10	1.3	< 5	< 0.01	<	127	< 0.025		< 0.033	< 0.005	5.4	0.16		< 0.2	< 0.04		226		8.03	< 10	4.4		3.5	8.3	9.7		124	1	< 3		1.3	< 0.025	< 0.02
8/7/2003		100			0.01				30.4	< 10	1.3				128			< 0.033		5.5	0.076							7.85		4.7		3.1	5.1	19.7		114	< 1	< 3		1.5		
12/2/2003		118			0.011				29.9	< 10	1.3				181			0.044		5.2	0.24							6.82		4.8		3.2	8	6.2		131	< 1	< 3		2.3		
5/6/2004	114	114	< 0.2	0.096	0.011	0.0063		< 0.005	31.4	< 10	< 0.5	< 5	< 0.01		221	< 0.025		< 0.03	< 0.005	5.6	0.018	< 0.0002	< 0.2	< 0.04		-21.8		5.2	< 10	4.4		2.9	7.9	5.9		109	< 1	< 3		0.6	< 0.025	< 0.02
8/4/2004	109	109		< 0.02	0.01				30.2	< 10	2				223			< 0.03		5.4	0.05							8.07		4.4		3	9.4	10.3		137	1.1	< 3		0.5		
11/29/2004	73.5	73.5		< 0.02	0.013				29.7	< 10	2.3				242			< 0.03		5.4	0.17							7.84		4.6		3.3	8.5	8.1		162	1.4	< 3		< 0		
5/4/2005		95.4	< 0.2	< 0.02	0.012	0.0053		< 0.005	32.4	< 10	2.7	< 5	< 0.01		191	< 0.025		< 0.03	< 0.005	5.7	0.049		< 0.2	< 0.04		6.8		7.83	< 10	4.2		3	7.3	6		159	1.7	< 3		< 0	< 0.025	< 0.02
8/10/2005		86.1		0.12	0.011				30.7	< 10	1.5				154			< 0.03		5.5	0.066							7.59		4.3		3.1	6.5	11.1		90	< 1	< 3		0.3		
12/8/2005		96.6		< 0.02	0.013				33.2	< 10	1.1				153			< 0.03		5.9	0.19							7.24		4.5		3.4	6.8	6.6		121	< 1	< 3		5.5		
5/10/2006		96.4	< 0.2	0.048	0.01	0.0057			31.3	< 10	1.8		< 0.01		172	< 0.025		0.048	< 0.005	5.9	0.13		< 0.2			185		8.56		4.3		3.3	8	6.5		158	< 1	< 4		3	< 0.025	< 0.02
8/25/2006		105		0.026	0.011				32.7	< 10	2				226			< 0.03		6.1	0.11									4.2		3	6.8	8.2		131	1	< 4	1.6			
12/7/2006		104		< 0.02	0.01				31.1		1.8							< 0.03		5.7	0.16									4.3		3	9.1	8.1		155	< 1	< 4	< 0			
5/4/2007		158	< 0.2	< 0.02	0.01	0.0061			30.8		2.2		< 0.01		269	< 0.025		< 0.03	< 0.005	5.9	0.031		< 0.2			130		7.97		4.4		3	11.1	7.5		114	< 1	< 4		0.5	< 0.025	< 0.02
8/13/2007		120		0.034	0.013				33.3		2.1				2100			< 0.03		6.2	0.11							7.55		4.8		3.9	3.7	11		119	< 1	< 4		0.7		
12/5/2007		73.4		0.045	0.015				34.8		2.7				215			3.1		7.2	1.6							7.53		5.5		3.5	3.8	2.5		147	1.6	46.4		16.1		
4/30/2008		107	< 0.2	< 0.02	0.012	0.0064			32.3		1.9		< 0.01		231	< 0.025		< 0.03	< 0.005	6	0.12		< 0.2			-154		7.4		4.3		3.3	2.3	7.1		140	1.4	< 4		0.5	< 0.025	< 0.02
8/7/2008		126		0.075	0.012				32.8		2.4							< 0.03		6	0.24							8.09		4.5		3.4	4.8			169	< 1	< 4				
12/4/2008		108		< 0.02	0.012				32.6		1.8							< 0.03		6	0.2									4.8		3.2	3.7			121	< 1	< 4				
5/7/2009		109	< 0.030	< 0.020	0.0107	0.0063			33.0		2.2		< 0.0100		218	< 0.0250	1	< 0.030	< 0.0050	6.12	0.107	< 0.0002			< 0.050		50.1	7.45			4.44		3.4	6.34	7		121	< 1.0	< 4.0		< 0	< 0.0250	< 0.0200
8/31/2009		106		0.169	0.0082				34.7		2.4				234		15.5	< 0.030		6.54	0.228				< 0.050			6.77			5.13		4.1	4.09	8.8		114	1.2	< 4.0		1.2		
11/6/2009		146		0.032	0.0142				33.0		2.9				233		0.3	< 0.030		6.18	0.247				< 0.050			7.65			4.52		3.6	< 1.49	8.1		105	< 1.0	< 4.0		0.2		
4/26/2010		123	< 0.040	< 0.020	0.0125	0.0058			31.6		2.3		< 0.0100		260	< 0.0250	1.7	< 0.030	< 0.0050	5.81	0.0617	< 0.0002			< 0.050		88.6	7.94			4.33		3.2	7.35	9.5		138	1.0	< 4.0		0.2	< 0.0250	< 0.0200
8/6/2010		105		0.163	0.0126				32.1		1.9				262		8.4	< 0.030		5.96	0.151				< 0.050			7.04			4.18		3.3	3.45	21.3		134	< 1.0	< 4.0		0.3		
11/5/2010		103		< 0.020	0.0122				33.6		2.1				276		0.9	< 0.030		6.62	0.112				< 0.050			7.62			4.94		4.0	11.3	9.4		139	1.2	< 4.0		1		
4/28/2011		107	< 0.060	< 0.020	0.014	0.0068			33.7		2.5		< 0.010		244	< 0.025	1.1	< 0.030	< 0.0050	6.2	0.25	< 0.00020			< 0.050		105	7.81			4.8		3.5	15.9	8.2		131	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/4/2011		148			0.0094				32.3		1.9				280		2.5	< 0.030		6.1	0.10				< 0.050		79.7	7.40			4.3		3.3	7.3	17.2		139	< 1.0	< 4.0		0.6		
11/2/2011		107			0.015				33.4		1.8				257		0.7	< 0.030		6.5	0.077				< 0.050		79.3	7.41			4.8		3.8	8.8	9.8		147	< 1.0	< 4.0		0		
4/26/2012		106	< 0.060		0.010	0.0059			32.8		2.3		< 0.010		224	< 0.025	2.0	< 0.030	< 0.0050	6.1	0.017	< 0.00020			0.041		34.3	7.48			4.6		4.0	18.9	8.1		149	< 1.0	< 4.0		0	< 0.025	< 0.020
8/8/2012		114			0.016				31.5		1.6				222		0.6	< 0.030		6.1	0.052				< 0.050		32.3	6.34			4.6		3.7	8.9	10.5		145	< 1.0	< 4.0		0.3		
11/1/2012		112			0.014				35.8		1.9				240		0.8	< 0.030		6.6	0.051				< 0.050		163.8	7.73			5.2		4.9	8.6	10.0		143	< 1.0	< 4.0		0		
4/3/2013		106	< 0.060	< 0.020	0.0091	0.0052			31.2		1.5		< 0.010		223	< 0.025	2.0	< 0.030	< 0.0050	6.0	0.046	< 0.00020			0.024		107.5	7.99			4.4		3.8	9.5	6.0		156	< 1.0	< 4.0		0.8	< 0.025	< 0.020
8/8/2013		101			0.011				31.9		2.3				216		0.8	< 0.03		5.8	0.04				< 0.05		-170.2	8.02			4.2		3.4	8.9	10.2		129	0.66	< 4		0.6		
11/4/2013		116			0.013				31.0		2.0				221		1.2	< 0.030		6.1	0.072				< 0.050		129.9	7.97			4.4		4.2	12.0	8.8		150	< 1.0	< 4.0		0		
5/1/2014		119	0.11		0.011	0.011			29.9		1.7		< 0.010		210	< 0.025	0.6	0.16	< 0.0050	5.8	0.46	< 0.00020			0.021		168.0	7.74			4.3		3.9	16.7	7.9		106	< 1.0	4.4		0	< 0.025	0.0026
8/12/2014		113		< 0.020	0.015				32.1		1.9				168		3.9	0.75		6.2	0.54				0.029		97.0	8.07			4.5		3.4	9.2	16.3		135	0.68	11.6		10.5		
11/11/2014		105			0.015				32.2		1.6				230		0	< 0.030		6.8	0.16				< 0.050		91.0	7.87			4.9		3.9	4.0	7.0		169	0.47	< 4.0		0		
5/14/2015		101	0.073		0.013	0.011			30.4		2.0		< 0.010		184	< 0.025	0	0.085	< 0.0050	6.4	0.53	< 0.00020			< 0.050		238.0	7.87			4.5		3.9	12.9	11.4		110	1.0	< 4.0		2.0	< 0.025	0.0047
8/18/2015		106			0.013				30.5		1.7				174		0	< 0.030		5.8	0.25				< 0.050		186.0	9.05			4.4		3.8	12.0	16.8		115	0.79	< 4.0		0		
11/11/2015		110			0.0095				31		2.6				159		1.6	< 0.030		5.9	0.11				< 0.050		186.0	7.70			4.6		4.2	8.0	9.3		130	< 1.0	< 4.0		0		
4/28/2016		100	< 0.060		0.0083	0.0052			28		2.1		< 0.010		212	< 0.025	1.0	< 0.030	< 0.0050	5.3	0.070	< 0.00020			< 0.050		65.8	7.60			4.1		3.4	20	7.3		120	< 1.0	< 4.0		0.9	< 0.025	< 0.020
8/18/2016		100			0.011				31		1.5				230		0.9	< 0.030		5.9	0.015				< 0.050		50.2	7.59			4.6		4.0	8.3	13.1		110	< 1.0	< 4.0		0		
11/8/2016		110			0.012				31		1.5				217		0.2	< 0.030		6.0	0.020				< 0.050		49.0	7.96			4.9		4.0	7.9	9.1		130	< 1.0	< 4.0		1.6		
5/15/2017		100	< 0.050		0.012	< 0.0050			29		2.1		< 0.010			< 0.025	0.4	< 0.030	< 0.0050	5.6	0.046	< 0.00020			< 0.050		155.5	7.72			4.2		3.3	10	7.2		110	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/25/2017		98			0.013				30		1.7						0.7	< 0.030		5.9	0.035				< 0.050		116.3	7.93			4.3		3.6	< 5.0	9.8		130	< 1.0	< 4.0		0.2		
11/17/2017		110			0.013				30		1.8						1.2	< 0.030		5.8	0.048				< 0.050		85.1	7.85			4.5		3.9	10	8.2		130	< 1.0	< 4.0	1.2			
5/16/2018		100	< 0.25		0.0096	0.0054			30		1.8		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	5.7	0.017				< 0.050		29.6	7.19			4.3		3.5	14	8.0		130	< 1.0	< 4.0	0.2		< 0.025	< 0.020
8/23/2018		110	< 0.25		0.012	0.0057			30		1.9		< 0.010			< 0.025	0.3	< 0.030	< 0.0050	5.7	0.017				< 0.050		48.0	7.39			4.1		3.9	8.5	9.5		120	< 1.0	< 4.0	1.0		< 0.025	< 0.020
11/6/2018		120	< 0.25		0.014	0.0057			32		1.6		< 0.010			< 0.025	0.5	< 0.030	< 0.0050	6.3	0.022				< 0.050		170.7	6.40			4.3		4.3	< 5.0	8.5		130	< 1.0	< 4.0	0.6		< 0.025	< 0.020
6/4/2019		94	< 0.25		0.012	0.0059			29		1.6		< 0.010			< 0.025	0.8	< 0.030	< 0.0050	5.6	0.083				< 0.050		98.9	7.20			4.2		3.5	7.1	7.2		110	< 1.0	< 4.0	0.2		< 0.025	< 0.020
8/7/2019		97	< 0.25		0.0090	0.0050			26		1.7		< 0.010			< 0.025	0.7	< 0.030	< 0.0050	4.9	0.045				< 0.050		-18.1	7.66			3.7		2.9	< 5.0	9.7		110	< 1.0	< 4.0	0.2		< 0.025	< 0.020
11/13/2019		100	< 0.25		0.012	0.0054			31		2.0		< 0.010			< 0.025	0.3	< 0.030	< 0.0050	5.7	0.077				< 0.050		222.6	8.16			4.4		3.5	5.5	7.9		150	< 1.0	< 4.0	0		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-1E																																											
4/30/2002	30.8	30.8	0.14	< 0.02	< 0.01	0.026	< 2	< 0.005	7	< 10	2.3	< 0.14	< 0.01		143	< 0.025		0.062	< 0.005	4.7	0.15		< 0.2	< 0.04				6.86		1.6	< 0.01	12.7	14.1	5.5	< 0.01	78	< 1	< 3		1.11	< 0.025	0.02
6/10/2002	43.6	43.6	0.079	< 0.02	< 0.01	0.039	< 2	< 0.005	7.2	< 10	2.1	< 1	< 0.01		131	< 0.025		0.07	< 0.005	6.3	0.13		< 0.2	< 0.04				6.7		1.3	< 0.01	12.6	24.6	25	< 0.01	79	< 1	< 3		2.89	< 0.025	< 0.02
5/7/2003	25.4	25.4		< 0.02	< 0.01	0.02		< 0.005	6	< 10	< 0.5	< 5	< 0.01	<	105	< 0.025		< 0.033	< 0.005	6.9	0.024		< 0.2	< 0.04		128		7.46		0.87		12.1	39.2	19.6		126	1.2	< 3		1.7	< 0.025	< 0.02
12/2/2003		31.8			< 0.01				2.8	< 10	2.6				60			0.19		2.8	0.016							7.38		0.64		4.6	28.3	5.5		56	1.2	< 3		4.6		
5/6/2004	9.9	9.9	< 0.2	< 0.02	< 0.01	0.014		< 0.005	3.5	< 10	0.58	< 5	< 0.01		90	< 0.025		0.11	< 0.005	4	< 0.01	< 0.0002	< 0.2	< 0.04		-18.9		5.98	< 10	0.58		5.6	13.8	6.6		51	< 1	< 3		2.2	< 0.025	< 0.02
5/4/2005		17.9	0.31	< 0.02	< 0.01	0.0073		< 0.005	2.5	< 10	2	< 5	< 0.01		69	< 0.025		0.15	< 0.005	2.6	< 0.01		< 0.2	< 0.04		116		7.25	< 10	0.32		4.3	14.2	6.9		59	1.7	< 3		3.7	< 0.025	< 0.02
12/8/2005		13.8		< 0.02	< 0.01				3	< 10	2.1				59			0.39		3.2	< 0.01							5.84		0.6		6	12.8	6.4		63	< 1	< 3		14		
5/10/2006		29.5	< 0.2	0.038	< 0.01	0.0098			4.3	< 10	2.6		< 0.01		84	< 0.025		0.15	< 0.005	5	< 0.01		< 0.2			210		6.47		0.54		9.9	20.8	9.9		92	< 1	< 4		2.4	< 0.025	< 0.02
12/7/2006		33.1		< 0.02	< 0.01				4.8		2.4							0.54		5.5	0.012									0.73		11	21.1	7.9		74	< 1	< 4	7			
5/4/2007		48.2	< 0.2	< 0.02	< 0.01	0.0074			4.4		2.5		< 0.01			< 0.025		0.12	< 0.005	5.4	< 0.01		< 0.2							0.44		10.2	22.4			80	< 1	< 4			< 0.025	< 0.02
12/6/2007		25.4		0.11	< 0.01				4.5		2.5				115			1.4		5.3	0.024							7.28		1		11.9	29.8	3		133	1.9	< 4				
5/1/2008		38.2	0.23	< 0.02	< 0.01	0.0075			4.7		1.9		< 0.01		148	< 0.025		0.2	< 0.005	5.6	< 0.01		< 0.2			-108		6.58		0.58		12.9	26	7.9		63	< 1	< 4		3	< 0.025	< 0.02
8/7/2008		48.9		0.17	< 0.01				5.1		2							0.46		5.9	< 0.01							6.41		0.83		16.1	31			122	1.2	< 4				
12/2/2008		87		< 0.02	< 0.01				5.5		2.2							0.49		6.3	< 0.01									0.8		16.7	35.2			101	1.3	< 4				
5/7/2009		39.8	0.260	< 0.020	< 0.0050	0.0078			5.1		2.0		< 0.0100		123	< 0.0250	6.5	0.264	< 0.0050	5.92	< 0.0100	< 0.0002			< 0.050		32.2	7.52			0.592		13.6	17.8	8.1		81.0	1.2	< 4.0		< 0	< 0.0250	< 0.0200
4/26/2010		44.3	0.408	< 0.020	< 0.0056	0.0081			4.7		11.7		< 0.0100		144	< 0.0250	7	0.374	< 0.0050	5.58	< 0.0100	< 0.0002			< 0.050		144.2	6.51			0.566		12.9	20.7	10.6		95.0	1.1	< 4.0		6.4	< 0.0250	< 0.0200
4/28/2011		33.7	0.82	< 0.020	< 0.0056	0.0070			4.2		2.5		< 0.010		113	< 0.025	7.7	0.53	< 0.0050	4.8	< 0.010	< 0.00020			< 0.050		253.2	6.34			0.77		11.2	16.7	12.9		81.0	< 1.0	< 4.0		16.0	< 0.025	< 0.020
11/2/2011		30.9			< 0.0056				3.9		3.1				106		7.7	4.7		4.9	0.073				< 0.050		92.1	6.84			1.5		10.3	16.7	11.7		103	< 1.0	< 4.0		18.8		
4/26/2012		37.0	0.19		< 0.0056	0.0043			4.7		1.3		< 0.010		113	< 0.025	6.3	0.12	< 0.0050	5.1	0.0022	< 0.00020			< 0.050		67.8	6.35			0.61		10.8	14.4	11.7		91.0	< 1.0	< 4.0		2.6	0.0019	< 0.020
4/4/2013		23.0	0.59	< 0.020	< 0.010	0.0057			3.1		1.2		< 0.010		76	< 0.010	7.9	0.55	< 0.0050	3.5	0.0086	< 0.00020			< 0.050		173.9	6.23			0.56		6.5	11.6	6.0		61.0	< 1.0	< 4.0		17.0	< 0.040	0.0023
8/8/2013		28.6			< 0.01				5.2		2.6				93		5.6	0.37		4.5	0.0061				< 0.05		202.7	6.36			0.62		8.2	13	15.7		89	< 1	< 4		26		
5/1/2014		37.7	1.7		< 0.0056	0.012			4.6		1.7		0.0018		26	0.0018	5.0	1.5	< 0.0050	5.6	0.024	< 0.00020			< 0.050		225.0	6.08			0.91		7.4	14.2	5.6		73.0	< 1.0	14.0		29.8	0.0026	0.0046
8/14/2014		< 10.0		< 0.020	< 0.0056				1.2		1.7				86		2.7	< 0.030		0.58	0.0050				0.063		214.0	5.90			0.37		1.4	3.6	21.8		25.0	< 1.0	< 4.0		2.9		
11/11/2014																																					1						
5/14/2015		36.7	0.36		< 0.0056	0.0051			5.0		2.0		< 0.010		81	< 0.025	5.9	0.31	< 0.0050	6.3	0.0052	< 0.00020			< 0.050		303.0	6.31			0.61		7.5	15.0	9.0		88.3	0.76	< 4.0		1.1	< 0.025	< 0.020
11/11/2015																																					< 1.0						
5/3/2016		25	0.24		< 0.0056	< 0.0050			3.5		1.5		< 0.010		86	< 0.025	8.5	0.22	< 0.0050	4.0	< 0.010	< 0.00020			< 0.050		119.4	6.62			0.45		6.6	10	9.4		53	1.1	< 4.0		4.7	< 0.025	< 0.020
5/15/2017		24	0.42		< 0.0090	0.028			3.1		1.7		< 0.010			< 0.025	9.0	4.8	0.0057	4.5	0.073	< 0.00020			< 0.050		179.3	6.60			1.4		4.8	12	7.2		88	1.6	150		11.7	< 0.025	< 0.020
11/17/2017		13			< 0.0090				2.3		2.7						11.6	2.6		2.8	0.040				< 0.050		104.3	7.84			0.98		5.3	9.6	2.6		97	2.2	15	57.3			
11/25/2019		30	2.7		< 0.0090	0.024			4.7		2.5		< 0.010			< 0.025	12.6	3.7	< 0.0050	6.2	0.060				< 0.050		-69.6	6.86			1.5		8.8	19	10.4		170	1.0	< 5.2	61.1		< 0.025	< 0.020
W12-2E																																											
4/30/2002	5.7	5.7	0.76	< 0.02	< 0.01	0.013	< 2	< 0.005	1.2	< 10	1.6	< 0.14	< 0.01		24	< 0.025		0.34	< 0.005	0.48	0.037		< 0.2	< 0.04				6.38		0.57	< 0.01	2.5	11.9	7.1	< 0.01	32	< 1	< 3		5.02	< 0.025	< 0.02
6/10/2002	6.5	6.5	0.32	0.057	< 0.01	0.022	< 2	< 0.005	1.2	< 10	1	< 1	< 0.01		19	< 0.025		0.15	< 0.005	0.47	0.029		< 0.2	< 0.04				6.46		0.47	< 0.01	1.7	8.4	16.3	< 0.01	34	< 1	< 3		4.4	< 0.025	< 0.02
7/16/2002	< 5	< 5	0.12	< 0.02	< 0.01	0.02	< 2		1.3	17.8	1.9				36			0.11		0.67	0.015							7.29		0.59		1.5	3	21.4		< 5	< 1	< 3		0.55		< 0.02
8/14/2002	< 5	< 5	< 0.032	< 0.02	< 0.01	0.014	< 2		1.2	< 10	1.5				22			0.058		0.51	0.012					291		6.66		0.62		1.5	3.3	17		47	< 1	< 3		0.54		< 0.02
12/9/2002		< 5			< 0.01				1.2	< 10	< 0.5				21			< 0.03		0.42	< 0.01							8.2		0.43		1.5	1.7	3.7		41	< 1	< 3		1.6		
5/7/2003	< 5	< 5		< 0.02	< 0.01	0.0092		< 0.005	1	< 10	1.4	< 5	< 0.01	<	14	< 0.025		< 0.033	< 0.005	0.38	< 0.01		< 0.2	< 0.04		194		5.8	< 10	0.37		1.2	3	8.3		40	< 1	< 3		1	< 0.025	< 0.02
8/7/2003		< 5			< 0.01				1.1	< 10	1.5				16			0.04		0.42	< 0.01							6.97		0.55		1.5	4.2	21.4		17	< 1	4		1.8		
12/2/2003		10.2			< 0.01				1.1	< 10	1.5				171			< 0.03		0.4	< 0.01							6.05		0.46		1.3	< 1	6.5		13	< 1	< 3		1.1		
5/6/2004	< 5	< 5	< 0.2	< 0.02	< 0.01	0.01		< 0.005	1.2	< 10	1.7	< 5	< 0.01		26	< 0.025		< 0.03	< 0.005	0.43	< 0.01	< 0.0002	< 0.2	< 0.04		-90		5.34	< 10	0.36		1.3	2.7	6.7		12	< 1	< 3		0.3	< 0.025	< 0.02
8/4/2004	< 5	< 5		< 0.02	< 0.01				1	< 10	2.8				26			< 0.03		0.39	< 0.01							6.67		0.46		1.4	4.3	18.4		25	< 1	< 3		2.1		
11/29/2004	14.5	14.5		< 0.02	< 0.01				1.2	< 10	3.4				37			< 0.03		0.45	< 0.01							6.97		0.47		1.3	2.3	9.4		50	< 1	4		0.3		
5/6/2005		7.4	< 0.2	0.099	< 0.01	0.0093		< 0.005	1	< 10	1.6	< 5	< 0.01		28	< 0.025		< 0.03	< 0.005	0.4	< 0.01		< 0.2	< 0.04		191		5.92	< 10	0.32		1.2	5.2	4.5		17	< 1	< 3		0.3	< 0.025	< 0.02
8/10/2005		< 5		0.12	< 0.01				1.1	< 10	1.9				25			< 0.03		0.4	< 0.01							5.15		0.38		1.5	< 1	18.5		27	< 1	< 3		0.4		
12/8/2005		< 5		< 0.02	< 0.01				1.1	< 10	1.9				23			< 0.03		0.45	< 0.01							6.43		0.36		1.7	< 1	6		9	< 1	< 3		6.4		
5/10/2006		5.7	< 0.2	0.064	< 0.01	0.009			1.2	< 10	1.9	< 5	< 0.01		23	< 0.025		< 0.03	< 0.005	0.45	< 0.01		< 0.2			224		6.04		0.32		1.4	8	8.1		12	< 1	< 4		1.6	< 0.025	< 0.02
8/25/2006		9.5		0.05	< 0.01				1.1	< 10	1.9				27			0.03		0.44	< 0.01									0.37		1.3	2.8	13.6		23	< 1	< 4	0.8			
5/8/2007		< 5	< 0.2	< 0.02	< 0.01	0.0078			1		1.4	< 5	< 0.01		20	< 0.025		< 0.03	< 0.005	0.45	< 0.01		< 0.2			120		4.72		0.24		1.4	3.4	15.7		28	< 1	< 4		0.5	< 0.025	< 0.02
8/13/2007		5		0.096	< 0.01				1.1		1.3				230			< 0.03		0.43	< 0.01							5.65		0.42		1.5	4	16.6		< 5	< 1	< 4		4.8		
12/5/2007		< 5		0.069	< 0.01				1.2		1.9				51			0.18		0.55	0.012							7.73		0.57		1.7	5.8	4.4		17	< 1	< 4		3.1		
4/30/2008		< 5	< 0.2	0.094	< 0.01	0.0078			1.1		1.2	< 5	< 0.01		25	< 0.025		0.043	< 0.005	0.49	< 0.01		< 0.2			-104		6.61		0.3		1.4	< 1	8.8		31	< 1	< 4		2.1	< 0.025	< 0.02
8/11/2008		7.8		0.23	< 0.01				1.2		1.8							0.14		0.53	< 0.01							5.21		0.42		1.6	2.1			35	< 1	< 4				
12/4/2008		< 5		< 0.02	< 0.01				1.2		1.4							< 0.03		0.51	< 0.01									0.32		1.2	2			28	< 1	< 4				
5/8/2009		< 10.0	0.032	< 0.020	< 0.0050	0.0073			1.0		1.1	< 5.0	< 0.0100		25	< 0.0250	3.7	< 0.030	< 0.0050	0.493	< 0.0100	< 0.0002			< 0.050		142	6.37			0.266		1.3	4.38	11		9.0	< 1.0	< 4.0		1.0	< 0.0250	< 0.0200
8/31/2009		< 10.0		0.101	< 0.0056				1.3		1.2				46		11.8	0.030		0.534	< 0.0100				< 0.050			6.82			0.454		1.5	3.34	20.7		8.0	< 1.0	< 4.0		1.6		
11/6/2009		13.7		0.028	< 0.0056				1.2		1.6				85		9	< 0.030		0.557	< 0.0100				< 0.050			7.87			0.333		1.4	5.36	6.4		< 5.0	< 1.0	< 4.0		0		
4/27/2010		10.0	< 0.040	< 0.020	< 0.0056	0.0076			1.0	< 10.0	1.1	< 5.0	< 0.0100		47	< 0.0250	10.7	< 0.030	< 0.0050	0.533	< 0.0100	< 0.0002			< 0.050		187.6	5.20			0.251		1.1	4.12	7		< 5.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/6/2010		< 10.0		0.070	< 0.0056				1.2		0.9				31		7.7	< 0.030		0.477	< 0.0100				< 0.050			7.66			0.374		1.2	3.14	23.2		5.0	< 1.0	< 4.0		0.3		
11/3/2010		< 10.0		< 0.020	< 0.0056				1.1		1.4				26		7.8	< 0.030		0.543	< 0.0100				< 0.050			5.02			0.515		1.6	5.24	12.1		< 5.0	< 1.0	< 4.0		0.7		
4/28/2011		< 10.0	0.075	< 0.020	< 0.0056	0.0076			1.2		1.1	< 5.0	< 0.010		24	< 0.025	10.8	< 0.030	< 0.0050	0.59	< 0.010	< 0.00020			< 0.050		259.5	5.19			0.40		1.1	6.6	12.1		23.0	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/4/2011		< 10.0			< 0.0056				1.2		1.1				28		7.7	0.030		0.57	< 0.010				< 0.050		108.9	5.61			0.31		1.2	3.6	18.5		32.0	< 1.0	< 4.0		0.8		
11/4/2011		< 10.0			< 0.0056				1.2		1.3				24		9.0	< 0.030		0.58	< 0.010				< 0.050		36.6	7.18			0.63		1.3	4.2	11.4		49.0	< 1.0	< 4.0		2.0		
5/2/2012		7.0	< 0.060		< 0.0056	0.0078			1.2		1.5	< 5.0	< 0.010		20	0.0018	9.3	< 0.030	< 0.0050	0.52	0.0035	< 0.00020			< 0.050		196.4	4.67			0.26		1.0	3.1	7.5		18.0	< 1.0	< 4.0		0.1	< 0.025	0.0053
8/8/2012		6.7			< 0.0056				1.2		1.0				20		6.1	0.082		0.55	0.010				< 0.050		34.2	5.26			0.45		1.2	< 1.5	26.0		31.0	< 1.0	< 4.0		1.8		
11/1/2012		< 10.0			< 0.0056				1.2		1.2				23		9.1	0.034		0.52	0.0056				< 0.050		197.4	6.89			0.50		1.3	3.0	12.4		34.0	< 1.0	< 4.0		0.6		
4/5/2013		4.5	0.062	< 0.020	< 0.0056	0.0084			1.3		1.1	< 5.0	< 0.010		25	< 0.025	8.8	0.021	< 0.0050	0.64	0.0055	< 0.00020			0.024		220.0	5.61			0.33		1.1	3.0	7.6		8.0	< 1.0	< 4.0		1.3	< 0.025	0.0016
8/8/2013		< 10			< 0.0056				1.2		1.8				31		8.2	< 0.03		0.53	0.0045				< 0.05		237.4	5.79			0.28		1	2.2	17.4		36	< 1	< 4		0.3		
11/4/2013		< 10.0			< 0.0056				1.0		1.6				20		8.1	< 0.030		0.52	0.0049				< 0.050		116.6	6.87			0.27		1.0	4.3	10.9		31.0	< 1.0	< 4.0		0.3		
5/1/2014		< 10.0	< 0.060		< 0.0056	0.0079			1.1		1.4	< 5.0	< 0.010		28	< 0.025	7.0	< 0.030	< 0.0050	0.59	0.0039	< 0.00020			< 0.050		244.0	5.34			0.26		1.0	3.0	6.3		15.0	< 1.0	< 4.0		0	< 0.025	< 0.020
8/12/2014		5.9		< 0.020	< 0.0056				1.2		1.8				20		6.8	< 0.030		0.60	0.0051				0.097		266.0	5.46			0.35		1.4	2.7	15.2		34.0	< 1.0	< 4.0		0.1		
11/10/2014		5.0			< 0.0056				1.3		1.2				26		4.6	< 0.030		0.59	0.0046				< 0.050		230	5.73			0.39		1.3	2.3	13.8		52.0	< 1	< 4.0		0		

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-2E																																											
5/14/2015		< 10.0	< 0.060		< 0.0056	0.0081			1.2		1.6	< 5.0	< 0.010		18	< 0.025	10.8	< 0.030	< 0.0050	0.64	0.0035	< 0.00020			< 0.050		324.0	5.56			0.26		1.1	3.1	8.0		41.0	< 1.0	< 4.0		0	< 0.025	0.0031
8/18/2015		< 10.0			< 0.0056				1.1		1.6				17		8.2	< 0.030		0.54	0.0045				< 0.050		208.0	6.18			0.43		1.4	4.2	17.4		< 5.0	< 1.0	< 4.0		0		
11/10/2015		< 10			< 0.0056				0.90		2.3				13		6.4	< 0.030		0.52	< 0.010				< 0.050		291.0	5.62			0.34		1.5	3.6	15.8		< 5.0	< 1.0	< 4.0		0		
5/3/2016		< 10	< 0.060		< 0.0056	0.0082			1.1		1.6	< 5.0	< 0.010		23	< 0.025	11.6	< 0.030	< 0.0050	0.63	< 0.010	< 0.00020			< 0.050		219.8	5.02			0.31		1.1	4.9	8.2		12	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/18/2016		< 10			< 0.0056				1.3		1.5				30		8.5	0.047		0.59	< 0.010				< 0.050		199.8	6.24			0.51		1.5	< 1.5	23.8		< 5.0	< 1.0	< 4.0		3.5		
11/8/2016		< 10			< 0.0090				0.86		1.0				33		9.5	< 0.030		0.49	< 0.010				< 0.050		155.4	6.62			0.30		1.2	< 5.0	13.2		14	< 1.0	< 4.0		1.3		
5/15/2017		< 10	< 0.050		< 0.0090	0.0078			0.91		2.3	< 5.0	< 0.010			< 0.025	10.9	< 0.030	< 0.0050	0.53	< 0.010	< 0.00020			< 0.050		222.6	5.55			0.27		1.0	< 5.0	6.9		< 5.0	< 1.0	< 4.0		1.2	< 0.025	< 0.020
8/23/2017		< 10			< 0.0090				0.91		1.3						8.2	< 0.030		0.51	< 0.010				< 0.050		178.0	6.33			0.45		1.3	< 5.0	21.9		< 5.0	< 1.0	< 4.0		0.3		
11/2/2017		< 10			< 0.0090				0.87		2.1						9.8	0.034		0.49	< 0.010				< 0.050		199.8	5.85			0.43		1.2	< 5.0	12.7		32	< 1.0	< 4.0	1.8			
5/24/2018		< 10	0.26		< 0.0090	0.0078			0.88		1.6	< 1.0	< 0.010			< 0.025	10.8	0.030	< 0.0050	0.51	< 0.010				< 0.050		118.3	5.14			0.31		1.1	< 5.0	9.3		5.0	< 1.0	< 4.0	1.5		< 0.025	< 0.020
8/22/2018		< 10	< 0.25		< 0.0090	0.0098			0.83		1.1		< 0.010			< 0.025	8.2	< 0.030	< 0.0050	0.43	< 0.010				< 0.050		90.2	6.05			0.35		1.2	< 5.0	17.7		13	< 1.0	< 4.0	1.9		< 0.025	< 0.020
11/7/2018		< 10	< 0.25		< 0.0090	0.0092			0.81		0.80		< 0.010			< 0.025	8.3	< 0.030	< 0.0050	0.47	< 0.010				< 0.050		158.3	6.35			0.39		1.2	< 5.0	13.6		8.0	< 1.0	< 4.0	0.5		< 0.025	< 0.020
6/4/2019		< 10	< 0.25		< 0.0090	0.0085			0.89		1.1	< 1.0	< 0.010			< 0.025	12.0	< 0.030	< 0.0050	0.53	< 0.010				< 0.050		127.4	4.41			0.27		1.2	< 5.0	8.5		5.0	< 1.0	< 4.0	2.0		< 0.025	< 0.020
8/6/2019		< 10	< 0.25		< 0.0090	0.010			0.96		1.4		< 0.010			< 0.025	5.7	< 0.030	< 0.0050	0.52	< 0.010				< 0.050		59.4	6.73			0.39		1.3	< 5.0	25.1		< 5.0	< 1.0	< 4.0	2.0		< 0.025	< 0.020
12/19/2019		< 10.0	< 0.25		< 0.0090	0.0091			0.80		1.5		< 0.010			< 0.025	10.9	0.083	< 0.0050	0.49	< 0.010				< 0.050		-56.0	5.26			0.40		1.3	< 5.0	3.7		160		< 4.0	0.3		< 0.025	< 0.020
W12-3E																																											
4/30/2002	88.5	88.5	0.13	< 0.02	< 0.01	0.03	< 2	< 0.005	14	< 10	1.9	< 0.14	< 0.01		209	< 0.025		0.047	< 0.005	5.8	0.15		< 0.2	< 0.04					6.97		2.2	< 0.01	17.2	13.8	11.3	< 0.01	112	< 1	< 3		1.68	< 0.025	0.087
6/10/2002	71.8	71.8	0.048	0.086	< 0.01	0.034	< 2	< 0.005	12.5	< 10	1.3	< 1	< 0.01		190	< 0.025		< 0.035	< 0.005	7.1	0.12		< 0.2	< 0.04					7.12		1.8	< 0.01	12.1	12.3	15.6	< 0.01	102	< 1	< 3		1.14	< 0.025	0.059
7/17/2002	69.3	69.3	< 0.03	0.021	< 0.01	0.033	< 2		12.8	< 10	1.6				193			< 0.035		8.8	0.068								7.03		1.8		9.2	11.4	25		97	1.5	< 3		0.96		< 0.02
8/14/2002	93.2	93.2	< 0.032	< 0.02	< 0.01	0.025	< 2		14	< 10	1.8				233			0.058		9.9	0.063					184			6.88		2		9	8	32.7		132	< 1	< 3		0.34		< 0.02
12/9/2002		77.3			< 0.01				18	< 10	3.3				192			< 0.03		12.4	0.014								7.28		2.1		10	7.5	<		105		< 3		1.5		
12/12/2002																																					1.3						
5/6/2003	75.2	75.2		< 0.02	< 0.01	0.024		< 0.005	14.4	< 10	2.4	< 5	< 0.01	<	119	< 0.025		< 0.033	< 0.005	10.9	< 0.01		< 0.2	< 0.04		226			7.05	< 10	1.6		8.2	4.7	8.5		98	< 1	6		1.6	< 0.025	< 0.02
8/8/2003		78.1			< 0.01				14	< 10	1.6				125			< 0.033		10.6	< 0.01								7.19		1.6		8	5	19		131	< 1	< 3		1.8		
12/2/2003		123			< 0.01				17.4	< 10	2.1				90			< 0.03		11.8	< 0.01								6.88		2		9.5	1.4	4.6		142	< 1	< 3		0.9		
5/6/2004	103	103	< 0.2	0.18	< 0.01	0.019		< 0.005	17	< 10	2.4	< 5	< 0.01		229	< 0.025		< 0.03	< 0.005	12.7	< 0.01	< 0.0002	< 0.2	< 0.04		-17			5.68	< 10	1.7		9	9.1	9.4		113	< 1	< 3		0.3	< 0.025	< 0.02
8/5/2004	114	114		< 0.02	< 0.01				18.5	< 10	3.7				240			< 0.03		13.9	< 0.01								6.91		1.8		9.2	11.3	13.1		118	1.1	< 3		1		
11/29/2004	116	116		< 0.02	< 0.01				18.3	< 10	3.5				230			< 0.03		13.1	< 0.01								7.3		1.9		9.6	9.6	7.6		157	< 1	< 3		< 0		
5/5/2005		104	< 0.2	0.028	< 0.01	0.017		< 0.005	17.5	< 10	3.6	< 5	< 0.01		207	< 0.025		< 0.03	< 0.005	13.4	< 0.01		< 0.2	< 0.04		9			6.87	< 10	1.6		9	9	11.7		150	< 1	< 3		0.2	< 0.025	< 0.02
8/10/2005		90.2		0.11	< 0.01				16.8	< 10	3.2				221			< 0.03		13.3	< 0.01								7.13		1.6		8.4	8.1	24.2		128	< 1	< 3		2.3		
12/8/2005		99.1		< 0.02	< 0.01				19.1	< 10	2.7				163			< 0.03		14.7	< 0.01								5.24		1.7		10.1	7.6	4.7		103	< 1	< 3		6		
5/10/2006		139	< 0.2	0.046	< 0.01	0.015			19.3	< 10	2.7		< 0.01		438	< 0.025		< 0.03	< 0.005	15.5	< 0.01		< 0.2			98.3			6.77		1.7		9.2	8.8	8.7		155	< 1	< 4		< 0	< 0.025	< 0.02
8/25/2006		116		0.031	< 0.01				19.5	< 10	2.7				314			< 0.03		15.9	< 0.01								1.6		8.7	7.5	16.5		143	< 1	< 4	1.7			
12/7/2006		131		< 0.02	< 0.01				20.4		2.5							< 0.03		16.1	< 0.01								1.7		9.6	9.8	9.5		115	1.1	< 4	0.1			
5/8/2007		137	< 0.2	< 0.02	< 0.01	0.014			21.9		1.6		< 0.01		258	< 0.025		< 0.03	< 0.005	18.4	< 0.01		< 0.2			70			6.7		1.5		9	9.8	17.3		134	< 1	< 4		0.2	< 0.025	< 0.02
8/14/2007		146		0.15	< 0.01				23.8		1.7				261			< 0.03		18.9	< 0.01								6.7		1.8		9.2	1.1	20.5		171	< 1	< 4		0.6		
12/6/2007		161		0.061	< 0.01				22.6		2				261			< 0.03		17.4	< 0.01								6.95		1.7		9.5	7.7	1.4		168	1.2	< 4				
5/8/2008		168	< 0.2	< 0.02	< 0.01	0.012			23.7		1.1		< 0.01		281	< 0.025		< 0.03	< 0.005	18.2	< 0.01		< 0.2			4.3			7.03		1.5		8.1	< 1	11.4		145	< 1	< 4		0.5	< 0.025	< 0.02
8/6/2008		142		0.16	< 0.01				24.8		1.5							< 0.03		18.8	0.012								6.77		1.7		8.9	1.4			166	< 1	< 4				
12/3/2008		148		0.045	< 0.01				26.5		1.3							0.28		20.2	0.01										2.1		11.5	3.9			154	< 1	< 4				
5/6/2009		176	0.053	< 0.020	< 0.0050	0.0113			30.1		1.8		< 0.0100		266	< 0.0250	4.2	< 0.030	< 0.0050	21.0	< 0.0100	< 0.0002			0.317		101.6	6.86			1.53		8.3	1.37	9.2		195	1.5	< 4.0		0	< 0.0250	< 0.0200
8/31/2009		162		0.119	< 0.0056				26.8		1.4				380		6.9	0.066		20.0	< 0.0100				0.310			6.24			1.99		9.7	1.95	16.2		168	1.4	< 4.0		1.8		
11/6/2009		207		0.056	< 0.0056				28.2		3.2				316		10.4	< 0.030		20.4	< 0.0100				0.375			7.04			1.67		8.8	9.04	6.7		150	< 1.0	< 4.0		0.1		
4/27/2010		177	< 0.040	< 0.020	< 0.0056	0.0094			26.7	< 10.0	2.0		< 0.0100		348	< 0.0250	12.6	< 0.030	< 0.0050	20.0	< 0.0100	< 0.0002			0.392		163.2	6.98			1.51		8.4	< 1.49	7.6		209	1.3	< 4.0		0.5	< 0.0250	< 0.0200
8/5/2010		157		0.081	< 0.0056				29.4		1.5				404		11.2	0.086		20.5	< 0.0100				0.278			6.69			2.43		10.1	2.05	22.7		188	1.0	< 4.0		2.4		
11/3/2010		173		< 0.020	< 0.0056				26.1		2.3				360		4.8	< 0.030		20.8	< 0.0100				0.299			6.73			2.00		9.8	8.87	10		128	1.4	< 4.0		1.4		
4/28/2011		174	< 0.060	< 0.020	< 0.0056	0.0088			27.0		1.9		< 0.010		315	< 0.025	5.2	< 0.030	< 0.0050	20.7	< 0.010	< 0.00020			0.31		233.6	6.90			1.6		8.5	11.1	15.0		161	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/4/2011		164			< 0.0056				27.1		1.6				437		3.7	< 0.030		19.7	< 0.010				0.26		62.8	6.71			1.6		9.0	1.9	18.8		166	< 1.0	< 4.0		0.7		
11/3/2011		167			< 0.0056				28.7		1.8				389		7.4	< 0.030		20.3	< 0.010				0.27		75.0	7.14			2.1		9.7	2.2	13.0		170	< 1.0	< 4.0		1.2		
4/24/2012		174	< 0.060		< 0.0056	0.0079			31.2		2.4		0.0012		308	< 0.025	5.3	< 0.030	< 0.0050	20.7	0.0012	< 0.00020			0.31		62.1	6.64			1.5		7.1	7.5	11.1		167	0.91	< 4.0		0	< 0.025	0.0044
8/9/2012		170			< 0.0056				28.1		1.2				355		5.2	< 0.030		19.5	0.00092				0.26		10.6	6.39			1.7		8.9	< 1.5	21.1		214	< 1.0	< 4.0		0.6		
10/31/2012		169			< 0.0056				29.2		1.8				356		4.4	< 0.030		19.2	< 0.010				0.28		143.9	6.67			1.8		8.5	2.1	14.4		184	< 1.0	< 4.0		0.3		
4/5/2013		194	< 0.060	0.024	< 0.0056	0.0067			29.3		1.2		0.0016		311	< 0.025	5.2	< 0.030	0.0035	20.0	0.00091	< 0.00020			0.37		166.6	6.99			1.5		8.0	< 1.5	9.9		151	< 1.0	< 4.0		0.3	< 0.025	0.0036
8/7/2013		169			< 0.0056				27.8		1.9				363		3.2	< 0.03		19.4	0.002				0.24		127.2	7.02			1.8		9.3	2	18.8		194	0.94	< 4		0.1		
11/4/2013		198			< 0.0056				28.9		1.7				331		7.0	< 0.030		20.4	0.0014				0.23		133.1	7.15			1.7		8.7	2.6	6.7		191	0.51	< 4.0		0.8		
5/1/2014		192	< 0.060		< 0.0056	0.0067			31.2		0.94		< 0.010		290	< 0.025	2.0	< 0.030	< 0.0050	18.9	0.0016	< 0.00020			0.49		194.0	7.04			1.4		6.8	< 1.5	8.5		178	0.81	< 4.0		6.8	< 0.025	0.0017
8/21/2014		214		< 0.020	< 0.0056				46.5		1.1				291		2.8	0.025		18.4	0.0046				1.4		201.0	6.66			1.6		6.0	< 1.5	19.2		196	0.47	< 4.0		0		
11/11/2014		197			< 0.0056				49.8		1.0				324		4.4	0.040		19.8	< 0.010				0.30		258.0	6.92			1.7		6.0	< 1.5	10.9		222	1.7	< 4.0		0		
5/14/2015		165	0.22		< 0.0056	0.0065			41.8		1.6		< 0.010		263	< 0.025	2.8	0.22	< 0.0050	17.1	0.0037	< 0.00020			0.51		155.0	7.44			1.4		5.0	1.5	10.3		175	1.1	< 4.0		0.5	< 0.025	0.0028
8/26/2015		190			< 0.0056				47.8		1.4				151		1.8	0.033		16.7	0.0041				0.34		321.0	4.39			1.5		4.9	1.9	19.2		210	1.5	< 4.0		2.0		
11/11/2015		180			< 0.0056				35		2.4				212		4.1	< 0.030		18	< 0.010				0.28		219.0	7.12			1.7		7.6	2.3	10.3		190	< 1.0	< 4.0		0		
4/28/2016		170	< 0.060		< 0.0056	0.0064			32		1.4		< 0.010		323	< 0.025	5.1	< 0.030	< 0.0050	19	< 0.010	< 0.00020			0.29		117.9	6.59			1.6		7.9	2.7	12.0		180	1.2	< 4.0		2.9	< 0.025	< 0.020
8/26/2016		170			< 0.0056				35		1.8				377		2.7	< 0.030		18	< 0.010				0.16		105.5	6.58			1.5		7.0	3.6	19.6		180	1.1	< 4.0		1.5		
11/8/2016		180			< 0.0090				31		0.91				345		4.2	0.037		19	< 0.010				0.18		-92.2	7.07			1.9		9.2	5.2	13.9		160	< 1.0	< 4.0		1.7		
5/15/2017		160	< 0.050		< 0.0090	< 0.0050			40		1.5		< 0.010			< 0.025	3.4	< 0.030	< 0.0050	14	< 0.010	< 0.00020			0.40		154.1	6.94			1.2		4.6	< 5.0	7.8		140	< 1.0	< 4.0		0.8	< 0.025	< 0.020
8/23/2017		180			< 0.0090				30		1.4						4.5	< 0.030		18	< 0.010				0.29		180.0	6.79			1.7		8.2	< 5.0	18.6		180	< 1.0	< 4.0		0		
11/17/2017		180			< 0.0090				33		1.6						6.6	< 0.030		19	< 0.010				0.19		105.5	7.00			2.2		10	< 5.0	7.1		200	< 1.0	< 4.0	1.8			
5/30/2018		170	< 0.25		< 0.0090	0.0051			37		1.7		< 0.010			< 0.025	3.5	< 0.030	< 0.0050	17	< 0.010				0.20		49.0	6.70			1.3		6.2	< 5.0	14.0		190	< 1.0	< 4.0	1.5		< 0.025	< 0.020
8/28/2018		160	< 0.25		< 0.0090	0.0051			31		1.5		< 0.010			< 0.025	3.2	< 0.030	< 0.0050	17	< 0.010				0.13		73.4	6.64			1.5		7.7	< 5.0	24.2		160	< 1.0	< 4.0	2.5		< 0.025	< 0.020
11/7/2018		170	< 0.25		< 0.0090	0.0051			32		1.3		< 0.010			< 0.025	5.3	< 0.030	< 0.0050	18	< 0.010				0.095		163.3	6.29			1.6		7.8	< 5.0	12.3		180	< 1.0	< 4.0	0.7		< 0.025	< 0.020
6/7/2019		190	< 0.25		< 0.0090	0.0051			47		1.0		< 0.010			< 0.025	1.9	< 0.030	< 0.0050	14	< 0.010				0.17		93.9	6.62			1.4		4.5	< 5.0	11.4		180	1.5	< 4.0	0		< 0.025	< 0.020
8/6/2019		180	< 0.25		< 0.0090	0.0050			39		1.6		< 0.010			< 0.025	5.6	< 0.030	< 0.0050	16	< 0.010				0.14		62.2	7.68			1.4		5.9	< 5.0	26.0		150	< 1.0	< 4.0	1.7		< 0.025	< 0.020
11/20/2019		200	< 0.25		< 0.0090	0.0052			35		2.0		< 0.010			< 0.025	9.7	< 0.030	< 0.0050	18	< 0.010				1.0		51.1	7.12			1.6		7.7	< 5.0	6.4		170	1.2	< 4.0	0.2		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-4B																																											
5/1/2002	75.4	75.4	0.08	< 0.02	< 0.01	< 0.005	< 2	< 0.005	14.3	< 10	1.6	< 1	< 0.01		160	< 0.025		< 0.035	< 0.005	2.8	0.025		< 0.2	< 0.04				8.5		2.9	< 0.01	13.7	6.1	8.9	< 0.01	87	< 1	< 3		0.27	< 0.025	< 0.02
6/10/2002	70.2	70.2	0.09	0.86	0.011	< 0.005	< 2	< 0.005	14	< 10	1.3	< 1	< 0.01		119	< 0.025		< 0.035	< 0.005	2.8	0.023		< 0.2	< 0.04				8.71		3	< 0.01	14	7.1	10	< 0.01	93	< 1	< 3		0.28	< 0.025	< 0.02
7/17/2002	60.9	60.9	< 0.03	0.034	0.013	0.012	< 2		14	< 10	1.4				164			0.036		2.8	0.022							8.44		2.9		13.4	2.2	10.5		104	< 1	< 3		< 0		< 0.02
8/14/2002	75.8	75.8	< 0.033	< 0.02	0.015	0.011	< 2		13.8	< 10	1.7				96			< 0.03		2.8	0.022					140		8.8		2.8		12.6	5.5	12.4		125	< 1	< 3		0.74		< 0.02
12/9/2002		53.4			0.015				15.8	< 10	1.3				129			< 0.03		3.2	0.024							8.86		2.9		12.3	2.4	6.9		68	< 1	< 3		0.79		
5/7/2003	52.2	52.2		< 0.02	0.013	< 0.005		< 0.005	14.4	< 10	1.6	< 5	< 0.01	<	102	< 0.025		< 0.033	< 0.005	2.8	0.02		< 0.2	< 0.04		175		8.9	< 10	2.8		13.3	6.5	10.2		88	< 1	3		1.2	< 0.025	< 0.02
8/7/2003		75.7			0.016				15.5	< 10	1.4				100			< 0.033		3.1	0.022							8.72		3.2		14.2	2.7	11		85	< 1	< 3		1.8		
12/3/2003		116			0.013				14.6	< 10	1.8				132			0.032		2.8	0.02							8.39		3		12.8	5	5.5		127	< 1	< 3		1.1		
5/6/2004	81.8	81.8	< 0.2	0.12	0.014	< 0.005		< 0.005	15.1	< 10	< 0.5	< 5	< 0.01		164	< 0.025		< 0.03	< 0.005	2.9	0.02	< 0.0002	< 0.2	< 0.04		-21.1		6.89	< 10	3		13.3	7	9.8		100	< 1	< 3		0.6	< 0.025	< 0.02
8/5/2004	74.5	74.5		< 0.02	0.013				15.4	< 10	2				166			< 0.03		3	0.018							8.71		3		13	7.8	9.9		78	< 1	< 3		0.6		
11/29/2004	80.7	80.7		< 0.02	0.018				15.4	< 10	1.8				159			< 0.03		3	0.02							8.53		3.1		12	6	8.4		111	< 1	< 3		< 0		
5/5/2005		74.4	< 0.2	0.059	0.014	< 0.005		< 0.005	15.5	< 10	2	< 5	< 0.01		139	< 0.025		< 0.03	< 0.005	2.9	0.017		< 0.2	< 0.04		-4.9		8.49	< 10	3.2		12.6	6	8.4		118	< 1	< 3		0.1	< 0.025	< 0.02
8/10/2005		60.8		0.12	0.015				14.7	< 10	1.6				115			< 0.03		2.8	0.036							8		3		12.2	4.5	11.4		77	< 1	< 3		0.4		
12/8/2005		57.4		< 0.02	0.016				15.7	< 10	1				177			0.057		3.1	0.053							8.76		3		13.2	5	7		84	< 1	< 3		5.2		
5/10/2006		64.7	< 0.2	0.14	0.015	< 0.005			15.9	< 10	1.8		< 0.01		367	< 0.025		< 0.03	< 0.005	3.2	0.026		< 0.2			81.1		8.6		3.3		13	6.4	8.8		110	< 1	< 4		< 0	< 0.025	< 0.02
8/25/2006		72.2		0.062	0.018				16	< 10	1.9				128			< 0.03		3.2	0.037									3.1		11.9	5.4	11		89	< 1	< 4	1.5			
12/7/2006		79.8		< 0.02	0.018				15		1.9							< 0.03		3	0.03									3.1		12.7	7.2	8.6		123	< 1	< 4	< 0			
5/4/2007		99.6	< 0.2	0.031	0.016	< 0.005			14.5		2		< 0.01		191	< 0.025		< 0.03	< 0.005	2.9	0.031		< 0.2			236		8.42		3.1		12.7	8.9	10.3		93	< 1	< 4		0.6	< 0.025	< 0.02
8/13/2007		87.3		0.024	0.019				16.2		1.5				1500			< 0.03		3.2	0.015							7.56		3.5		13.1	7	12		73	< 1	< 4		0.5		
12/5/2007		67.3		0.32	0.02				16.7		1.5				163			0.37		3.3	0.42							8.39		3.7		13.4	8.6	5.8		98	< 1	< 4		9		
5/1/2008		79.5	< 0.2	< 0.02	0.018	< 0.005			15.5		1.5		< 0.01		165	< 0.025		0.041	< 0.005	3	0.056		< 0.2			-164		7.6		3.4		13.4	4.2	9.2		59	< 1	< 4		1.5	< 0.025	< 0.02
8/6/2008		86.5		0.19	0.016				15.6		1.6							< 0.03		3	0.02							8.61		3.4		13.6	4.8			102	< 1	< 4				
12/3/2008		77.6		< 0.02	0.02				15.1		2.5							< 0.03		3	0.029									3.6		13.7	5.9			72	< 1	< 4				
5/6/2009		81.9	< 0.030	< 0.020	0.0198	< 0.0050			15.7		1.8		< 0.0100		146	< 0.0250	1.1	< 0.030	< 0.0050	3.02	0.0474	< 0.0002			< 0.050		-28.7	8.56			3.54		13.5	7.59	10.2		104	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/31/2009		78.2		0.105	0.0198				16.7		1.6				167		1.2	< 0.030		3.32	0.0366				< 0.050			7.94			4.10		13.7	6.54	11.7		96.0	< 1.0	< 4.0		0.1		
11/9/2009		86.9		< 0.020	0.0235				16.0		1.3				164		0.3	< 0.030		3.12	0.0225				< 0.050			8.33			3.54		13.0	10.9	10.6		63.0	< 1.0	< 4.0		0		
4/27/2010		82.1	< 0.040	< 0.020	0.0221	< 0.0050			15.6	< 10.0	1.5		< 0.0100		191	< 0.0250	1.4	< 0.030	< 0.0050	2.99	0.0212	< 0.0002			< 0.050		129.8	8.29			3.60		12.9	7.94	9.4		96.0	< 1.0	< 4.0		0.1	< 0.0250	< 0.0200
8/5/2010		78.2		0.116	0.0230				17.4		1.6				183		3.6	0.058		3.23	0.156				< 0.050			8.01			4.08		13.5	6.63	11.8		141	< 1.0	< 4.0		2.4		
11/3/2010		82.4		< 0.020	0.0213				16.2		2.3				185		0.4	< 0.030		3.45	0.0425				< 0.050			8.32			3.90		12.9	10.7	10.8		75.0	< 1.0	< 4.0		1		
4/28/2011		80.9	0.061	< 0.020	0.023	0.0053			16.6		1.9		< 0.010		182	< 0.025	9.3	< 0.030	< 0.0050	3.2	0.038	< 0.00020			< 0.050		133	7.98			3.9		13.1	10.9	12.8		91.0	< 1.0	< 4.0		0	< 0.025	< 0.020
8/5/2011		81.4			0.021				16.8		2.0				212		3.5	< 0.030		3.3	0.027				< 0.050		106.7	7.90			3.9		12.5	6.0	20.4		100	< 1.0	< 4.0		0.1		
11/3/2011		74.4			0.023				17.0		1.8				189		0.4	< 0.030		3.2	0.021				< 0.050		39.0	8.02			4.2		13.1	8.9	11.2		104	< 1.0	< 4.0		1.2		
4/25/2012		79.2	< 0.060		0.022	0.0043			16.2		2.6		< 0.010		163	< 0.025	1.0	< 0.030	< 0.0050	3.1	0.016	< 0.00020			< 0.050		-29.2	8.05			3.7		12.8	12.0	11.0		85.0	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/9/2012		87.1			0.024				16.9		2.4				165		0.4	< 0.030		3.3	0.021				< 0.050		-21.6	7.53			3.8		12.7	6.3	12.3		86.0	< 1.0	< 4.0		0.4		
10/31/2012		81.4			0.020				16.4		2.0				167		0.5	< 0.030		3.1	0.022				0.047		150.3	7.88			3.8		12.1	7.7	11.8		92.0	< 1.0	< 4.0		0.3		
4/4/2013		71.1	< 0.060	< 0.020	0.026	0.0044			16.2		1.2		< 0.010		168	< 0.025	0.5	< 0.030	< 0.0050	3.2	0.014	< 0.00020			0.032		-45.1	8.53			3.6		12.9	8.8	11.1		76.0	< 1.0	< 4.0		0.4	< 0.025	< 0.020
8/15/2013		72.4			0.023				16.8		1.6				167		0.5	< 0.03		3.2	0.016				< 0.05		-16.5	8.57			3.6		12.4	7.3	12.1		94	0.65	< 4		0.1		
11/1/2013		87.7			0.027				16.4		2.1				167		0.7	< 0.030		3.2	0.020				< 0.050		-117.8	9.41			4.0		12.6	9.1	12.1		103	< 1.0	< 4.0		0.8		
5/2/2014		80.9	< 0.060		0.025	0.0055			16.5		1.7		< 0.010		157	< 0.025	1.2	0.036	< 0.0050	3.3	0.060	< 0.00020			0.029		151.0	7.62			3.9		13.1	9.3	14.6		83.0	< 1.0	< 4.0		0	< 0.025	0.0027
8/12/2014		88.8		< 0.020	0.023				17.1		2.0				148		1.3	0.014		3.4	0.024				0.047		33.0	8.41			3.8		12.6	9.2	15.2		101	< 1.0	< 4.0		0.9		
11/11/2014		77.1			0.025				18.1		1.4				171		0	0.15		3.8	0.26				0.058		75.0	8.20			4.2		12.4	7.6	9.4		139	< 1	< 4.0		0		
5/14/2015		79.4	< 0.060		0.021	0.0045			16.2		2.1		< 0.010		132	< 0.025	0.3	0.021	< 0.0050	3.5	0.024	< 0.00020			< 0.050		97.0	8.47			3.9		11.6	9.6	13.3		87.0	0.43	< 4.0		0	< 0.025	0.0019
8/18/2015		85.9			0.025				16.3		1.7				126		0.4	< 0.030		3.2	0.022				< 0.050		163.0	9.61			3.8		11.7	9.6	22.0		84.0	< 1.0	< 4.0		0		
11/11/2015		82			0.018				16		1.5				107		0.6	0.11		3.2	0.090				< 0.050		-8.0	6.75			3.7		11	9.2	11.4		110	< 1.0	< 4.0		5.0		
4/27/2016		74	0.075		0.020	< 0.0050			16		1.9		< 0.010		167	< 0.025	0.8	0.086	< 0.0050	3.2	0.040	< 0.00020			< 0.050		51.9	8.07			3.7		12	14	11.9		88	< 1.0	< 4.0		1.3	< 0.025	< 0.020
8/22/2016		80			0.022				15		1.7				162		0.6	< 0.030		3.3	0.031				< 0.050		-68.3	7.90			3.9		12	6.9	13.4		79	< 1.0	< 4.0		0		
11/8/2016		83			0.021				17		1.3				168		0.5	< 0.030		3.5	0.021				< 0.050		-145.4	8.11			3.9		12	6.0	11.6		93	< 1.0	< 4.0		0.1		
5/15/2017		71	< 0.050		0.022	< 0.0050			16		1.9		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	3.3	0.012	< 0.00020			< 0.050		8.9	8.43			3.8		12	5.5	11.5		78	< 1.0	< 4.0		1.0	< 0.025	< 0.020
8/25/2017		74			0.022				17		1.5						1.0	< 0.030		3.3	< 0.010				< 0.050		59.7	8.49			3.7		12	6.5	13.3		99	< 1.0	< 4.0		0.1		
11/15/2017		82			0.022				15		1.9						1.3	< 0.030		3.0	0.019				< 0.050		33.0	8.38			3.4		10	8.4	10.7		110	< 1.0	< 4.0	1.3			
5/8/2018		80	< 0.25		0.023	< 0.0050			16		2.3		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	3.2	0.011				< 0.050		-15.2	7.90			3.8		12	11	13.2		110	< 1.0	< 4.0	0.5		< 0.025	< 0.020
8/28/2018		73	< 0.25		0.019	< 0.0050			16		1.8		< 0.010			< 0.025	0.5	< 0.030	< 0.0050	3.1	0.011				< 0.050		85.8	7.49			3.3		11	7.6	14.1		79	< 1.0	< 4.0	0.7		< 0.025	< 0.020
11/8/2018		79	< 0.25		0.023	< 0.0050			16		1.2		< 0.010			< 0.025	0.6	< 0.030	< 0.0050	3.2	0.018				< 0.050		129.3	7.99			3.5		11	< 5.0	11.5		120	< 1.0	< 4.0	0.7		< 0.025	< 0.020
5/22/2019		73	< 0.25		0.021	< 0.0050			16		1.7		< 0.010			< 0.025	0.7	< 0.030	< 0.0050	3.1	0.010				< 0.050		3.4	8.30			3.6		12	< 5.0	12.4		100	< 1.0	< 4.0	0.5		< 0.025	< 0.020
8/6/2019		79	< 0.25		0.022	< 0.0050			17		1.6		< 0.010			< 0.025	0.5	< 0.030	< 0.0050	3.2	0.010				< 0.050		25.8	8.15			3.5		11	< 5.0	13.9		60	< 1.0	< 4.0	0.3		< 0.025	< 0.020
11/20/2019		69	< 0.25		0.020	< 0.0050			17		1.6		< 0.010			< 0.025	0.4	< 0.030	< 0.0050	3.3	0.029				< 0.050		-125.2	8.15			3.6		11	5.7	11.4		150	< 1.0	< 4.0	0		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-4E																																											
5/1/2002	50.4	50.4	0.12	0.051	< 0.01	0.018	< 2	< 0.005	7.9	18	1.7	< 1	< 0.01		117	< 0.025		0.089	< 0.005	4.3	0.14		< 0.2	< 0.04				6.83		1.2	< 0.01	8.2	10.7	9.6	< 0.01	79	< 1	< 3		2.31	< 0.025	< 0.02
6/10/2002	50	50	0.1	< 0.02	< 0.01	0.022	< 2	< 0.005	8.3	12	1.3	< 1	< 0.01		146	< 0.025		0.056	< 0.005	5.4	0.097		< 0.2	< 0.04				6.91		1.3	< 0.01	10.2	11.4	24.9	< 0.01	75	< 1	< 3		1.49	< 0.025	< 0.02
7/17/2002	47.9	47.9	< 0.03	0.026	< 0.01	0.028	< 2		7.8	12	1.7				145			< 0.035		6.3	0.057							7.23		1.3		8.9	13	22.6		81	1.5	< 3		1.07		< 0.02
8/14/2002	54.7	54.7	< 0.032	< 0.02	< 0.01	0.028	< 2		7.6	< 10	1.3				140			< 0.03		6.5	0.048					232		7.04		1.5		9	8.9	26.9		109	< 1	< 3		0.91		< 0.02
12/9/2002		40.1			< 0.01				7.4	< 10	1.2				118			0.041		6.8	0.012							6.95		1.3		8.8	8.2	5.4		77	< 1	< 3		2.2		
5/7/2003	44.3	44.3		< 0.02	< 0.01	0.018		< 0.005	7.4	< 10	< 0.5	< 5	< 0.01	<	78	< 0.025		< 0.033	< 0.005	7.1	< 0.01		< 0.2	< 0.04		324		6.65		1		6.9	8.2	9.5		81	< 1	< 3		1.3	< 0.025	< 0.02
8/7/2003		53.5			< 0.01				6.9	< 10	1.2				80			< 0.033		6.6	< 0.01							6.93		1.2		8.1	3.9	22.1		76	< 1	< 3		1.4		
12/3/2003		70.1			< 0.01				7.6	16.4	1.7				111			< 0.03		7.1	< 0.01							7.42		1.2		7.5	5.5	5.3		109	< 1	< 3		1.5		
5/6/2004	50.9	50.9	< 0.2	0.16	< 0.01	0.017		< 0.005	7.9	< 10	< 0.5	< 5	< 0.01		129	< 0.025		< 0.03	< 0.005	7.8	< 0.01	< 0.0002	< 0.2	< 0.04		-17.3		6.66	< 10	1		6.4	6.4	9.5		81	< 1	< 3		0.3	< 0.025	< 0.02
8/5/2004	61.9	61.9		< 0.02	< 0.01				7.7	< 10	1.9				138			< 0.03		7.4	< 0.01							6.87		1.1		7	7.8	14.6		67	< 1	< 3		1.4		
11/29/2004	29.2	29.2		< 0.02	< 0.01				8.2	< 10	1.8				152			< 0.03		7.7	< 0.01							7.88		1.1		7.1	6	7.8		103	< 1	< 3		< 0		
5/5/2005		59	< 0.2	0.037	< 0.01	0.015		< 0.005	7.7	< 10	2.1	< 5	< 0.01		112	< 0.025		< 0.03	< 0.005	7.4	< 0.01		< 0.2	< 0.04		12.8		6.38	< 10	0.85		7	6.4	7.4		83	< 1	< 3		1	< 0.025	< 0.02
8/10/2005		50		0.11	< 0.01				7.8	< 10	1.7				106			< 0.03		7.6	< 0.01							7.67		0.9		7.1	4	23.9		93	< 1	< 3		0.7		
12/8/2005		54.7		< 0.02	< 0.01				8.4	< 10	0.96				153			< 0.03		8.2	< 0.01							7.95		0.96		7.8	15.9	3.7		68	< 1	< 3		5.8		
5/10/2006		51.8	< 0.2	0.088	< 0.01	0.014			8.3	< 10	2.1	< 5	< 0.01		348	< 0.025		< 0.03	< 0.005	8.2	< 0.01		< 0.2			126.4		6.5		0.9		7.3	6.1	10.2		103	< 1	< 4		< 0	< 0.025	< 0.02
8/25/2006		60.5		0.028	< 0.01				8	< 10	2.1				113			< 0.03		8.1	< 0.01									0.88		6.8	5	15.3		87	< 1	< 4	0.7			
12/7/2006		68.2		< 0.02	< 0.01				8.5		2							< 0.03		8.4	< 0.01									0.94		7.2	6	8.5		32	< 1	< 4	0.9			
5/4/2007		85.6	< 0.2	< 0.02	< 0.01	0.012			7.9	< 10	2.1	< 5	< 0.01		127	< 0.025		< 0.03	< 0.005	8.1	< 0.01		< 0.2			124		6.72		0.73		6.9	7.7	13.3		101	< 1	< 4		6.6	< 0.025	< 0.02
8/13/2007		73.9		0.082	< 0.01				8.4	< 10	2.2				1360			0.041		8.3	< 0.01							6.44		0.98		7.6	5.8	17.2		58	< 1	< 4		0.6		
5/1/2008		73.2	< 0.2	0.033	< 0.01	0.011			9	< 10	1.6	< 5	< 0.01		155	< 0.025		< 0.03	< 0.005	9	< 0.01		< 0.2			-148		6.79		0.83		7.7	3.7	7.9		38	< 1	< 4		0.7	< 0.025	< 0.02
8/6/2008		70.2		< 0.02	< 0.01				9	< 10	1.8							0.091		8.8	< 0.01							6.62		1		8	4			96	< 1	< 4				
12/3/2008		69.6		< 0.02	< 0.01				10	< 10	1							< 0.03		9.9	< 0.01									1.1		8.7	4.2			76	< 1	< 4				
5/6/2009		72.0	< 0.030	< 0.020	< 0.0050	0.0102			9.4	< 10.0	2.5	< 5.0	< 0.0100		134	< 0.0250	4.6	< 0.030	< 0.0050	9.42	< 0.0100	< 0.0002				0.426		27.4	6.98			0.820		7.7	6.60	12.2		69.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/31/2009		71.7		0.044	< 0.0056				9.9	< 10.0	1.5				155		4.8	< 0.030		9.89	< 0.0100					0.366			6.55			1.06		8.3	6.84	19		73.0	< 1.0	< 4.0		0		
11/9/2009		82.9		0.156	< 0.0056				9.7	< 10.0	1.7				161		7.3	0.030		9.63	< 0.0100					0.400			6.61			0.878		7.9	9.60	13.8		46.0	< 1.0	< 4.0		0.1		
4/27/2010		78.2	< 0.040	< 0.020	< 0.0056	0.0094			9.1	< 10.0	1.5	< 5.0	< 0.0100		184	< 0.0250	5.2	< 0.030	< 0.0050	9.19	< 0.0100	< 0.0002				0.441		144	6.53			0.761		7.3	6.34	8.3		69.0	< 1.0	< 4.0		0	< 0.0250	< 0.0200
8/5/2010		73.0		0.080	< 0.0056				10.5	< 10.0	1.5				188		7.6	< 0.030		10.2	< 0.0100					0.463			7.77			1.14		8.4	9.32	20.9		120	< 1.0	< 4.0		1.2		
11/3/2010		80.0		< 0.020	< 0.0056				10.1	7.7	2.1				182		7.3	< 0.030		10.2	< 0.0100					0.438			6.73			1.12		9.1	8.93	11.1		49.0	< 1.0	< 4.0		0.6		
4/28/2011		80.2	0.060	< 0.020	< 0.0056	0.0095			10.2	< 10.0	1.8	< 5.0	< 0.010		183	< 0.025	9.6	< 0.030	< 0.0050	10.4	< 0.010	< 0.00020				0.45		132	6.38			0.92		8.0	10.5	14.8		85.0	< 1.0	< 4.0		0	< 0.025	< 0.020
8/5/2011		82.9			< 0.0056				10.3	< 10.0	1.7				206		5.2	< 0.030		10.5	< 0.010					0.47		97.5	6.40			0.85		8.2	3.2	18.4		96.0	< 1.0	< 4.0		0.5		
11/3/2011		77.0			< 0.0056				11.1	< 10.0	1.2				190		7.3	< 0.030		10.6	< 0.010					0.47		62.2	7.17			1.2		8.9	6.0	13.6		103	< 1.0	< 4.0		1.2		
4/24/2012		85.1	< 0.060		< 0.0056	0.0085			10.9	< 10.0	2.7	< 5.0	0.0010		167	< 0.025	6.0	< 0.030	< 0.0050	10.8	< 0.010	< 0.00020				0.48		74.6	6.18			0.85		8.0	10.5	10.2		64.0	0.44	< 4.0		0	< 0.025	< 0.020
8/9/2012		84.2			< 0.0056				10.5	< 10.0	1.2				172		4.6	< 0.030		11.2	0.0020					0.48		-38.6	7.19			0.96		8.3	4.9	21.5		78.0	< 1.0	< 4.0		2.0		
10/31/2012		77.9			< 0.0056				10.8	< 10.0	0.87				177		6.8	< 0.030		10.0	< 0.010					0.43		136.0	6.81			0.94		8.6	7.5	15.7		107	< 1.0	< 4.0		0.6		
4/4/2013		77.6	< 0.060	< 0.020	< 0.0056	0.0081			10.7	6.6	0.79	< 5.0	< 0.010		169	< 0.025	5.7	< 0.030	0.0031	10.8	< 0.010	< 0.00020				0.44		139.0	6.63			0.81		8.0	7.2	6.6		88.0	< 1.0	< 4.0		0.5	< 0.025	< 0.020
8/7/2013		82.6			< 0.0056				11.1	< 10	2.1				178		4.4	< 0.03		10.7	0.0021					0.38		128.9	6.63			0.96		8.7	6.9	19.1		110	0.76	< 4		0.2		
11/1/2013		89.0			< 0.0056				11.3	9.0	0.97				177		6.5	< 0.030		11.3	0.00067					0.44		98.5	7.04			1.0		8.9	8.5	13.5		106	0.49	< 4.0		0.3		
5/2/2014		85.7	0.070		< 0.0056	0.0084			11.1	< 10.0	1.1	< 5.0	< 0.010		169	< 0.025	3.1	0.10	< 0.0050	11.5	0.0031	< 0.00020				0.48		186	6.66			0.85		8.4	9.2	15.4		89.0	< 1.0	10.8		13.5	< 0.025	0.0074
8/12/2014		98.5		< 0.020	< 0.0056				12.0	< 10.0	1.3				1		2.5	0.12		12.1	0.0030					0.48		165.0	5.16			0.96		8.2	5.2	23.1		107	< 1.0	10.8		0		
11/10/2014		90.1			< 0.0056				11.2	< 10.0	0.84				154		4.2	0.12		11.4	0.0044					0.46		124.0	7.95			0.93		8.8	3.6	14.1		111	< 1	< 4.0		0		
5/14/2015		89.1	< 0.060		< 0.0056	0.0085			10.2	< 10.0	1.9	< 5.0	< 0.010		158	< 0.025	6.2	0.021	< 0.0050	11.2	< 0.010	< 0.00020				0.40		222.0	6.97			0.74		8.3	7.7	9.7		87.0	0.48	< 4.0		11.9	< 0.025	0.0015
8/28/2015		90.6			< 0.0056				11.0	< 10.0	1.3							0.30		10.9	0.010					0.52						1.0		8.3	< 1.5			92.0	0.50	< 4.0				
11/12/2015		98			< 0.0056				12	< 10	1.8				126		5.0	0.064		12	< 0.010					0.50		184.0	6.54			0.95		8.7	5.0	11.1		70	< 1.0	< 4.0		0		
4/27/2016		93	< 0.060		< 0.0056	0.0069			11	< 10	1.4	< 5.0	< 0.010		183	< 0.025	6.6	< 0.030	< 0.0050	11	< 0.010	< 0.00020				0.39		153.2	6.19			0.72		8.5	13	11.2		92	< 1.0	< 4.0		2.0	< 0.025	< 0.020
8/22/2016		95			< 0.0056				11	< 10	1.4				206		5.4	< 0.030		12	< 0.010					0.40		89.9	7.17			1.0		8.9	4.1	21.9		100	< 1.0	< 4.0		3.2		
11/8/2016		98			< 0.0090				12	< 10	1.2				188		6.0	< 0.030		12	< 0.010					0.44		-63.9	7.58			0.91		9.2	< 5.0	12.4		91	< 1.0	< 4.0		0.5		
5/15/2017		86	< 0.050		< 0.0090	0.0071			10	< 10	1.4	< 5.0	< 0.010			< 0.025	6.3	0.062	< 0.0050	10	< 0.010	< 0.00020				0.44		151.3	6.63			0.68		9.0	< 5.0	9.0		79	< 1.0	< 4.0		1.2	< 0.025	< 0.020
8/25/2017		75			< 0.0090				10	< 10	1.3						5.0	< 0.030		10	< 0.010					0.38		101.9	7.20			0.82		10	13	17.1		100	< 1.0	< 4.0		1.8		
11/15/2017		91			< 0.0090				11	< 10	1.1						5.6	< 0.030		10	< 0.010					0.44		70.1	7.57			0.79		9.3	9.4	6.2		110	< 1.0	< 4.0	1.4			
5/8/2018		91	< 0.25		< 0.0090	0.0064			11	< 10	1.7	< 1.0	< 0.010			< 0.025	6.3	< 0.030	< 0.0050	11	< 0.010					0.47		76.8	6.44			0.74		8.4	11	16.1		74	< 1.0	< 4.0	1.0		< 0.025	< 0.020
8/28/2018		74	< 0.25		< 0.0090	0.0074			9.9	10	0.92		< 0.010			< 0.025	3.7	< 0.030	< 0.0050	9.5	< 0.010					0.35		73.2	6.95			0.71		9.6	9.8	21.8		73	< 1.0	< 4.0	1.5		< 0.025	< 0.020
11/8/2018		96	< 0.25		< 0.0090	0.0064			11	< 10	0.79		< 0.010			< 0.025	7.0	< 0.030	< 0.0050	11	< 0.010					0.47		140.3	6.64			0.88		9.1	11	10.4		120	< 1.0	< 4.0	1.2		< 0.025	< 0.020
5/22/2019		85	< 0.25		< 0.0090	0.0065			11	< 10	1.2	< 1.0	< 0.010			< 0.025	4.1	< 0.030	< 0.0050	10	< 0.010					0.36		63.6	6.36			0.63		9.1	7.2	14.2		92	< 1.0	< 4.0	0.5		< 0.025	< 0.020
8/6/2019		95	< 0.25		< 0.0090	0.0085			9.8	< 10	0.96		< 0.010			< 0.025	3.5	< 0.030	< 0.0050	9.3	< 0.010					0.39		62.1	6.55			0.69		9.2	< 5.0	21.7		93	< 1.0	< 4.0	3.2		< 0.025	< 0.020
11/11/2019		89	< 0.25		< 0.0090	0.0075			11		0.65		< 0.010			< 0.025	11.9	< 0.030	< 0.0050	10	< 0.010					0.33		218.6	6.93			0.77		9.9	8.7	4.5		83	< 1.0	< 4.0	1.7		< 0.025	< 0.020

Appendix H-2
WMDSM Crossroads Landfill
Historical Data Table: Phase 11 and 12 Groundwater

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W12-5E																																											
6/10/2002	25.9	25.9	0.07	< 0.02	< 0.01	0.012	< 2	< 0.005	12	< 10	1.4	< 1	< 0.01		61	< 0.025		< 0.035	< 0.005	1.8	0.066		< 0.2	< 0.04				6.6		1.7	< 0.01	1.8	7.3	11.8	< 0.01	52	< 1	< 3		2.45	< 0.025	< 0.02
7/17/2002	24	24	< 0.03	< 0.02	< 0.01	0.013	< 2		12.3	< 10	3				93			< 0.035		1.5	0.036							6.74		1.6		1.4	4.8	13.7		57	1.2	< 3		< 0		< 0.02
8/14/2002	37	37	< 0.032	< 0.02	< 0.01	0.02	< 2		16	< 10	2.8				90			< 0.03		1.9	0.019					141		6.42		2		2	7.4	15.5		117	< 1	< 3		2.31		< 0.02
12/9/2002		59.2			< 0.01				32.8	< 10	2.2				125			< 0.03		4	< 0.01							6.46		2.5		2.7	16.8	6.9		123	1.1	< 3		0.5		
5/6/2003	120	120		< 0.02	< 0.01	0.019		< 0.005	56.9	< 10	1.7	< 5	< 0.01	<	200	< 0.025		< 0.033	< 0.005	7.3	0.035		< 0.2	< 0.04		226		6.57	< 10	2.5		2.7	20.1	7		214	2	< 3		2.4	< 0.025	< 0.02
8/7/2003		143			< 0.01				56.9	< 10	1.4				200			< 0.033		7	< 0.01							6.55		3		2.7	22.3	14.8		197	1.6	< 3		2.7		
12/2/2003		201			< 0.01				62.8	< 10	3.3				289			< 0.03		5	< 0.01							6.63		2.6		2.8	19.7	5.5		215	1.8	< 3		0.8		
5/6/2004	57.9	57.9	< 0.2	< 0.02	< 0.01	0.01		< 0.005	72.1	< 10	2.1	< 5	< 0.01		414	< 0.025		< 0.03	< 0.005	5.5	0.078	< 0.0002	< 0.2	< 0.04		-21.3		5.93	< 10	2.4		3.8	6.8	9.7		205	< 1	< 3		0.4	< 0.025	< 0.02
8/5/2004	205	205		< 0.02	< 0.01				74.2	< 10	4				422			< 0.03		5.5	0.04							6.94		2.8		4.4	25.3	12		229	2.9	< 3		0.6		
11/29/2004	210	210		< 0.02	< 0.01				80.1	< 10	3.6				401			< 0.03		6.5	0.047							6.93		3.3		4.8	22	10.4		278	2.5	< 3		< 0		
5/5/2005		197	< 0.2	0.096	< 0.01	0.012		< 0.005	82	< 10	2.6	< 5	< 0.01		397	< 0.025		< 0.03	< 0.005	6.4	0.048		< 0.2	< 0.04		9		6.8	< 10	2.8		4.7	34.8	8.2		303	2.3	< 3		0.1	< 0.025	< 0.02
8/10/2005		183		0.12	< 0.01				78.1	< 10	1.9				323			< 0.03		7.6	0.02							7.28		3.7		5	32.6	14.6		263	1.5	< 3		< 0		
12/8/2005		129		< 0.02	< 0.01				81.4	10.3	1.3				432			< 0.03		7.3	0.029							7.21		4.4		5.8	27.4	8.1		259	< 1	< 3		5.1		
5/10/2006		176	< 0.2	0.05	< 0.01	0.015			83.4	< 10	2.1		< 0.01		629	< 0.025		< 0.03	< 0.005	7.9	0.018		< 0.2			95		7.11		5		5.8	36.3	9.7		312	1.1	< 4		< 0	< 0.025	< 0.02
8/25/2006		208		0.051	< 0.01				84.5	< 10	2				416			< 0.03		7.1	0.014									5.3		5.6	33.9	15.8		301	1.4	< 4	1.3			
12/7/2006		232		< 0.02	< 0.01				85.4		2.3							< 0.03		6.9	0.059									5.9		5.9	28.2	7.8		245	1.1	< 4	< 0			
5/4/2007		292	< 0.2	< 0.02	< 0.01	0.014			69.1	< 10	2		< 0.01		458	< 0.025		< 0.03	< 0.005	5.8	0.015		< 0.2			36.5		7.04		4.9		5.2	22.9	9.4		251	< 1	< 4		0.5	< 0.025	< 0.02
8/14/2007		230		< 0.02	< 0.01				76.6	< 10	1.3				384			< 0.03		7.1	0.051							7.05		6		5.5	1.4	13.6		220	< 1	< 4		0.7		
12/6/2007		252		0.27	< 0.01				71.2	< 10	0.9				353			< 0.03		6.6	0.05							7.57		6.2		5.6	2	2.5		254	2	< 4				
5/1/2008		168	< 0.2	< 0.02	< 0.01	0.012			68.7	< 10	1		< 0.01			< 0.025		< 0.03	< 0.005	7.4	0.077		< 0.2							5.1		4.2	< 1			182	< 1	< 4			< 0.025	< 0.02
8/6/2008		214		< 0.02	< 0.01				65.2	< 10	0.96							< 0.03		8.1	0.17							7.37		5.5		3.4	< 1			227	< 1	< 4				
12/3/2008		196		< 0.02	< 0.01				70.8	< 10	1.1							< 0.03		9.8	0.64									6.6		3.7	< 1			205	< 1	< 4				
5/6/2009		185	< 0.030	< 0.020	< 0.0050	0.0126			66.8	< 10.0	1.1		< 0.0100		352	< 0.0250	1.3	< 0.030	< 0.0050	9.11	0.153	< 0.0002			0.639		31.1	7.37		5.59		2.6	1.24	9.1		218	1.3	< 4.0		0	< 0.0250	< 0.0200
8/31/2009		194		0.064	< 0.0056				65.3	< 10.0	1.4				372		1.7	< 0.030		8.19	0.104				0.256			7.16		6.74		3.3	< 1.49	14.2		220	1.1	< 4.0		1.2		
11/6/2009		235		0.083	< 0.0056				65.9	< 10.0	1.5				370		1.5	< 0.030		7.96	0.132				0.182			7.10		6.35		3.3	1.85	9.6		188	1.2	< 4.0		0.3		
4/27/2010		193	< 0.040	< 0.020	< 0.0056	0.0112			60.1	< 10.0	0.7		< 0.0100		386	< 0.0250	3.9	< 0.030	< 0.0050	6.55	0.0601	< 0.0002			0.260		146	8.64		5.25		2.3	< 1.49	8.6		203	1.2	< 4.0		0.7	< 0.0250	< 0.0200
8/5/2010		224		0.073	< 0.0056				70.2	< 10.0	0.8				447		1.5	< 0.030		7.72	0.0420				0.141			5.64		6.10		2.4	< 1.49	14.9		270	< 1.0	< 4.0		1		
11/3/2010		218		< 0.020	< 0.0056				66.2	4.5	1.1				430		1	< 0.030		7.46	0.0765				0.226			7.23		6.58		2.4	2.47	11.7		185	1.3	< 4.0		1		
4/28/2011		177	< 0.060	< 0.020	< 0.0056	0.012			62.1	< 10.0	0.59		< 0.010		375	< 0.025	3.9	< 0.030	< 0.0050	6.2	0.34	< 0.00020			0.71		111	7.21		5.4		1.5	4.1	15.3		188	< 1.0	< 4.0		0.3	< 0.025	< 0.020
8/5/2011		175			< 0.0056				60.7	< 10.0	0.96				456		3.4	< 0.030		6.2	< 0.010				0.32		93.5	7.30		5.6		1.4	< 1.5	23.5		203	< 1.0	< 4.0		0.2		
11/3/2011		179			< 0.0056				62.5	< 10.0	1.2				384		1.4	< 0.030		6.1	< 0.010				0.45		40.2	7.22		6.0		1.8	< 1.5	12.1		187	< 1.0	< 4.0		1.7		
4/24/2012		190	< 0.060		< 0.0056	0.012			67.7	< 10.0	2.2		< 0.010		388	< 0.025	2.2	< 0.030	< 0.0050	8.0	0.0014	< 0.00020			0.21		13.6	7.09		5.4		1.9	4.0	10.6		223	0.43	< 4.0		0.9	< 0.025	< 0.020
8/10/2012		212			< 0.0056				67.3	< 10.0	1.2				377		1.5	< 0.030		7.7	0.018				0.44		44.5	6.48		5.8		2.0	< 1.5	13.1		210	< 1.0	< 4.0		0.4		
10/31/2012		185			< 0.0056				59.3	< 10.0	1.2				355		0.9	< 0.030		6.0	< 0.010				0.20		152.3	6.98		5.7		1.5	< 1.5	12.6		202	< 1.0	< 4.0		0		
4/4/2013		180	< 0.060	0.041	< 0.0056	0.010			60.1	< 10.0	< 0.50		< 0.010		347	< 0.025	1.0	< 0.030	0.0034	6.8	0.014	< 0.00020			0.34		107.1	7.30		4.8		1.3	< 1.5	8.2		174	< 1.0	< 4.0		1.1	< 0.025	< 0.020
8/8/2013		174			< 0.0056				57.7	< 10	1.4				325		3.2	< 0.03		6.2	0.0018				0.32		175.2	7.32		5		1.1	< 1.5	11.5		215	0.59	< 4		0.1		
11/4/2013		197			< 0.0056				58.2	8.3	1.4				339		4.6	< 0.030		6.1	0.0012				0.33		155.5	7.43		5.5		1.1	2.1	8.2		214	< 1.0	< 4.0		0.2		
5/1/2014		186	< 0.060		< 0.0056	0.0097			56.5	< 10.0	0.34		< 0.010		319	< 0.025	2.6	< 0.030	< 0.0050	6.2	0.017	< 0.00020			0.30		166.0	7.66		4.8		1.1	< 1.5	10.4		198	< 1.0	< 4.0		0	< 0.025	< 0.020
8/12/2014		168		< 0.020	< 0.0056				50.0	5.4	0.50				259		6.9	< 0.030		5.2	0.022				0.64		127.0	7.50		4.6		1.0	< 1.5	16.1		171	< 1.0	< 4.0		0.6		
11/11/2014		172			< 0.0056				58.8	< 10.0	< 0.50				334		0.2	< 0.030		7.0	0.38				0.53		159.0	7.37		6.0		1.4	< 1.5	9.3		152	< 1	< 4.0		0		
5/14/2015		157	< 0.060		< 0.0056	0.0088			53.3	< 10.0	1.3		< 0.010		255	< 0.025	2.6	< 0.030	< 0.0050	6.2	0.0023	< 0.00020			0.53		146.0	7.89		4.8		1.0	< 1.5	10.8		152	0.50	< 4.0		0	< 0.025	< 0.020
8/26/2015		170			< 0.0056				54.7	5.6	0.46				235		0.8	< 0.030		5.8	0.0029				0.38		420.0	7.27		4.9		1.1	2.1	17.2		185	0.58	< 4.0		1.4		
11/11/2015		170			< 0.0056				53	< 10	1.8				192		1.3	< 0.030		5.5	< 0.010				0.28		195.0	7.66		5.2		1.1	2.2	11.3		200	< 1.0	< 4.0		0		
4/28/2016		150	< 0.060		< 0.0056	0.0072			44	< 10	0.80		< 0.010		264	< 0.025	6.0	< 0.030	< 0.0050	4.6	< 0.010	< 0.00020			0.48		87.7	6.95		4.1		0.85	2.6	9.2		170	< 1.0	< 4.0		0.7	< 0.025	< 0.020
8/23/2016		150			< 0.0056				52	< 10	0.68				334		1.3	< 0.030		5.9	< 0.010				0.30		-34.1	7.17		4.8		1.3	4.0	15.3		170	< 1.0	< 4.0		0.3		
11/8/2016		170			< 0.0090				55	< 10	0.80				320		1.7	< 0.030		6.2	< 0.010				1.1		-94.3	7.15		5.5		1.3	< 5.0	12.7		190	< 1.0	< 4.0		0.2		
5/15/2017		120	< 0.050		< 0.0090	0.0069			44	< 10	3.1		< 0.010			< 0.025	0.7	< 0.030	< 0.0050	5.2	< 0.010	< 0.00020			1.2		73.4	7.43		3.9		0.85	< 5.0	7.3		140	< 1.0	< 4.0		1.0	< 0.025	< 0.020
8/22/2017		130			< 0.0090				48	< 10	3.2						0.8	< 0.030		5.1	< 0.010				0.58		109.5	7.39		4.8		1.1	< 5.0	16.1		160	< 1.0	< 4.0		0		
11/15/2017		140			< 0.0090				43	< 10	2.7						1.2	< 0.030		4.5	< 0.010				0.56		117.3	7.23		4.3		0.97	< 5.0	12.0		160	< 1.0	< 4.0	1.5			
5/8/2018		110	< 0.25		< 0.0090	0.0056			36	< 10	1.5		< 0.010			< 0.025	1.0	< 0.030	< 0.0050	4.1	0.017				< 0.050		22.2	7.08		3.6		0.86	< 5.0	8.7		150	< 1.0	< 4.0	0.4		< 0.025	< 0.020
8/28/2018		150	< 0.25		< 0.0090	0.0085			49	13	1.5		< 0.010			< 0.025	0.4	< 0.030	< 0.0050	5.2	0.028				0.41		101.7	6.46		4.1		1.0	< 5.0	14.2		140	1.2	< 4.0	2.6		< 0.025	< 0.020
11/7/2018		130	< 0.25		< 0.0090	0.0070			42	11	< 0.50		< 0.010			< 0.025	1.2	< 0.030	< 0.0050	5.0	0.13				< 0.050		87.6	7.64		4.1		1.2	< 5.0	12.2		160	< 1.0	< 4.0	0		< 0.025	< 0.020
5/21/2019		130	< 0.25		< 0.0090	0.0066			42	< 10	0.66		< 0.010			< 0.025	2.0	< 0.030	< 0.0050	4.5	0.013				0.057		74.0	7.24		3.5		0.93	< 5.0	6.9		130	< 1.0	< 4.0	0		< 0.025	< 0.020
8/19/2019		170	< 0.25		< 0.0090	0.0090			55	< 10	0.62		< 0.010			< 0.025	0.3	< 0.030	< 0.0050	6.4	0.065				0.68		-7.8	6.80		4.8		1.3	< 5.0	13.2		160	< 1.0	< 4.0	0		< 0.025	< 0.020
12/10/2019		170	< 0.25		< 0.0090	0.0096			59	< 10	0.55		< 0.010			< 0.025	2.2	0.038	< 0.0050	6.0	< 0.010				1.3		55.4	7.13		4.9		1.6	< 5.0	9.6		170	< 1.0	< 4.0	0		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W9-1E																																											
5/9/2001		109		0.1	0.01	0.0056		< 0.005	10.9	< 10	< 0.5	< 5	< 0.01		173	< 0.025		0.057	< 0.005	7.3	0.17		< 0.2	< 0.04				7.4	< 10	2.3		21.9	8.9	7.2		106	< 1	< 3		128	< 0.025	< 0.02
5/9/2001														200																													
8/6/2001		111		< 0.02	< 0.01	0.0072		< 0.005	12.5	< 10	< 0.5	< 5	< 0.01	154	172	< 0.025		0.06	< 0.005	9.1	0.26		< 0.2	< 0.04				7.81	< 10	2.2		17.5	5.1	25.9		86	1.6	< 3		1.43	< 0.025	< 0.02
12/3/2001		81.3							11.6	< 10	1.1				103			0.25	< 0.005	9.1	0.027							6.57		1.8		11.4	4.4	10		104	< 1	4		5.85		
5/1/2002	108	108		0.066	< 0.01	< 0.005		< 0.005	12.4	< 10	1.4	< 5	< 0.01	12	138	< 0.025		0.049	< 0.005	9.1	0.24		< 0.2	< 0.04				7.36	< 10	2.1		15.8	6.4	7.9		115	< 1	3		4.16	< 0.025	< 0.02
8/5/2002		103							13.3	< 10	1.5							0.059	< 0.005	10	0.15							6.8		1.8		12.1	3.9			104	2.6	< 3				
12/2/2002		77.2			< 0.01				13.9	< 10	< 0.5				175			< 0.03		10.3	0.09							8.02		2.1		15.5	7.8	3.6		109	< 1	< 3		1		
5/1/2003	89.4	89.4		< 0.02	0.012	< 0.005		< 0.005	13.5	< 10	1.2	< 5	< 0.01	<	208	< 0.025		< 0.033	< 0.005	8.9	0.28		< 0.2	< 0.04		11		7.57	< 10	2.4		22.7	8.7	6.5		105	< 1	< 3		< 0	< 0.025	< 0.02
8/4/2003		123			0.026				13	< 10	1				228			0.087		7.6	0.13							7.96		2.8		26.1	6.2	20.5		105	< 1	< 3		< 0		
12/1/2003		193			0.02				12.7	< 10	1.1				187			0.056		7.9	0.14							7.69		3		29	9.6	8.8		156	< 1	< 3		1.9		
4/29/2004	127	127	< 0.2	< 0.02	0.013	< 0.005		< 0.005	13	< 10	< 0.5	< 5	< 0.01		246	< 0.025		0.034	< 0.005	8.5	0.035	< 0.0002	< 0.2	< 0.04		-43		7.71	< 10	2.4		23.6	5.3	9.6		108	< 1	3		0.9	< 0.025	< 0.02
8/4/2004	130	130		0.16	0.025				12.2	< 10	1.4				257			0.13		7.6	0.14							8.18		2.8		29.8	8.9	17		127	< 1	< 3		2.8		
12/3/2004	118	118		< 0.02	0.014				13	< 10	2.2				146			0.14		8.8	0.069							8.14		2.6		23.6	6.3	7.2		110	< 1	< 3		1		
4/25/2005		117	< 0.2	< 0.02	0.012	< 0.005		< 0.005	12.5	< 10	2.8	< 5	< 0.01		152	< 0.025		< 0.03	< 0.005	8.7	0.028		< 0.2	< 0.04		43.2		7.89	< 10	2.2		22.6	5.5	7.4		142	< 1	< 3		2.5	< 0.025	< 0.02
8/8/2005		111		0.38	0.02				11.4	< 10	1.3				170			0.15		7.1	0.28							7.89		2.4		27.1	6.7	20.7		135	< 1	7		1		
12/6/2005		95.1		0.12	0.02				12.4	< 10	1.8				160			0.12		8.3	0.17							7.21		2.6		26	5.6	13.6		146	< 1	< 3		6.3		
4/27/2006		119	< 0.2	0.078	0.02	< 0.005			12.3	< 10	1.4		< 0.01		191	< 0.025		< 0.03	< 0.005	8	< 0.01		< 0.2			88		7.98		2.6		27.4	< 1	9.9		147	< 1	< 4		< 0	< 0.025	< 0.02
8/22/2006		99.6		0.18	0.021				11.9	< 10	1.6				220			0.2		7.7	0.27									2.5		27.7	4.8	18.9		123	< 1	< 4	3.4			
12/8/2006		127		0.12	0.023				11.7		1.3							0.14		7.4	0.15									2.7		28.6	7.5	3.4		89	< 1	< 4				
5/9/2007		108	< 0.2	< 0.02	0.015	< 0.005			12.4		2.8		< 0.01		225	< 0.025		< 0.03	< 0.005	8.4	0.023		< 0.2			19		7.46		2.4		23.1	7.4	14.4		92	< 1	< 4		< 0	< 0.025	< 0.02
8/14/2007		118		0.04	0.011				14.1		3				202			< 0.03		10.1	0.085							6.87		2.2		20.6	2.6	19.9		127	< 1	< 4		0.2		
12/11/2007		98.8		0.061	0.017				13		2.7				208			0.16		8.7	0.1							7.76		2.7		26.1	6.6	7.7		127	< 1	< 4		1.4		
5/6/2008		102	< 0.2	< 0.02	0.019	< 0.005			12.9		2		< 0.01		241	< 0.025		< 0.03	< 0.005	8.5	0.014		< 0.2			-141		7.68		2.8		27.5	5	11.7		116	< 1	< 4			< 0.025	< 0.02
8/13/2008		112		0.36	0.023				12.2		1.8							0.087		8	0.3							7.76		2.7		29.3	< 1			116	< 1	< 4				
12/3/2008		120		< 0.02	0.027				12.9		0.84							0.1		8.3	0.17									3.1		32.7	1.2			107	< 1	< 4				
5/11/2009		113	< 0.030	< 0.020	0.0180	< 0.0050			11.8		1.3		< 0.0100		238	< 0.0250	1.6	< 0.030	< 0.0050	7.83	0.0137	< 0.0002			0.071		0.1	7.31			2.52		26.7	3.03	10.6		129	< 1.0	< 4.0		0	< 0.0250	< 0.0200
9/4/2009		123		0.230	0.0229				12.4		2.1				261		2.8	0.120		8.11	0.260				< 0.050			7.55			2.68		28.9	1.71	21.9		170	< 1.0	< 4.0		0.1		
11/11/2009		137		0.199	0.0231				13.1		2.1				239		5.1	0.131		8.78	0.205				< 0.050			7.74			2.70		28.6	8.34	13.6		91.0	< 1.0	< 4.0		0.4		
4/30/2010		134	0.041	< 0.020	0.0185	< 0.0050			13.3		2.3		< 0.0100		301	< 0.0250	2.9	< 0.030	< 0.0050	8.96	0.0137	< 0.0002			0.062		95.2	7.47			2.53		26.3	1.63	12.2		93.0	< 1.0	< 4.0		0.4	< 0.0250	< 0.0200
8/4/2010		112		0.095	0.0110				16.2		4.7				275		4.1	< 0.030		12.0	0.168				< 0.050			6.94			2.20		18.6	3.70	18.3		110	< 1.0	< 4.0		1.1		
11/10/2010		111		0.052	0.0090				15.9		5.1				280		7.2	0.061		11.6	0.219				< 0.050			7.49			2.44		19.3	9.45	8.1		146	< 1.0	< 4.0		0.8		
4/25/2011		84.7	2.3	< 0.020	0.0067	0.017			16.0		4.3		< 0.010		245	< 0.025	2.7	3.2	< 0.0050	12.4	0.079	< 0.00020			< 0.050		159.4	7.30			2.9		18.2	8.4	9.3		215	< 1.0	7.6		33.1	< 0.025	< 0.020
8/8/2011		118			0.012				15.1		3.4				312		2.4	0.035		11.1	0.18				< 0.050		71.1	7.16			2.6		21.8	< 1.5	21.1		105	< 1.0	< 4.0		0		
11/7/2011		151			0.019				14.0		2.9				285		6.5	0.070		9.8	0.23				< 0.050		96.3	7.05			2.7		25.9	6.5	11.4		144	< 1.0	< 4.0		1.7		
5/3/2012		122	< 0.060		0.010	0.0035			14.3		2.9		< 0.010		245	< 0.025	4.1	< 0.030	< 0.0050	10.0	0.0062	< 0.00020			0.026		49.2	7.21			2.3		22.6	12.1	9.0		106	< 1.0	< 4.0		0.6	< 0.025	< 0.020
8/8/2012		119			0.0080				16.8		3.9				302		4.3	< 0.030		12.0	0.18				< 0.050		93.7	7.58			2.3		18.2	5.5	24.3		117	< 1.0	< 4.0		1.0		
11/7/2012		125			0.0098				16.1		4.0				251		3.7	0.040		11.7	0.21				< 0.050		176.6	7.33			2.4		18.4	6.2	6.4		141	< 1.0	< 4.0		0.4		
4/11/2013		136	< 0.060	0.011	0.0079	0.0037			15.9		2.9		< 0.010		296	< 0.025	5.4	< 0.030	< 0.0050	11.4	0.014	< 0.00020			0.044		61.6	7.54			2.5		19.6	7.9	8.8		143	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/15/2013		120			0.012				16		3.3				252		2.4	< 0.03		11.2	0.088				< 0.05		145.8	7.31			2.5		20.8	5.3	17.2		123	0.86	< 4		0.8		
11/7/2013		140			0.015				15.6		3.4				248		5.6	0.039		11.1	0.21				< 0.050		100.1	7.11			2.5		21.8	5.1	10.7		130	< 1.0	< 4.0		0.3		
5/7/2014		124	0.22		0.0076	0.0097			17.4		3.2		0.0011		224	< 0.025	1.1	0.30	< 0.0050	12.4	0.17	< 0.00020			0.030		99	7.90			2.5		33.4	8.5	12.7		135	< 1.0	5.6		2.6	< 0.025	0.0037
8/12/2014		133		< 0.020	< 0.0056				17.2		3.5				212		0	0.32		12.8	0.12				0.031		56.0	6.98			2.3		17.1	6.3	14.1		144	< 1.0	5.2		13.4		
11/5/2014		120			0.0073				17.1		3.2				235		0.1	0.55		12.9	0.16				0.042		19.0	7.35			2.4		16.9	3.9	10.6		146	< 1.0	8.0		5.4		
5/26/2015		115	0.12		< 0.0056	0.0038			16.9		3.3		< 0.010		205	< 0.025	0	0.11	< 0.0050	12.6	0.032	< 0.00020			< 0.050		191.0	7.37			2.4		18.2	8.8	14.8		153	< 1.0	< 4.0		10.8	< 0.025	< 0.020
8/13/2015		128			< 0.0056				16.3		3.4				212		0	0.15		11.8	0.091				0.030		145	7.29			2.0		15.3	9.5	12.9		132	< 1.0	< 4.0		0.4		
11/11/2015		130			< 0.0056				17		4.1				164		2.8	0.57		12	0.16				0.050		130.0	5.16			2.4		15	7.5	9.9		140	< 1.0	< 4.0		3.5		
5/3/2016		120	< 0.060		< 0.0056	< 0.0050			17		2.9		< 0.010		253	< 0.025	4.0	< 0.030	< 0.0050	13	< 0.010	< 0.00020			< 0.050		152.8	7.36			2.4		18	9.3	9.8		130	< 1.0	< 4.0		0.5	< 0.025	< 0.020
8/25/2016		120			< 0.0056				18		3.0				272		5.8	< 0.030		13	0.094				< 0.050		28.3	7.32			2.3		15	4.8	21.0		160	< 1.0	< 4.0		1.3		
11/10/2016		140			< 0.0090				17		3.4				247		6.1	0.032		14	0.15				< 0.050		-78.2	7.12			2.2		15	< 5.0	7.9		160	< 1.0	< 4.0		0.8		
5/5/2017		120	< 0.050		< 0.0090	< 0.0050			18		2.8		< 0.010			< 0.025	3.1	0.054	< 0.0050	14	0.031	< 0.00020			< 0.050		87.5	7.31			2.2		16	7.0	9.4		140	< 1.0	< 4.0		2.2	< 0.025	< 0.020
8/14/2017		120			< 0.0090				17		2.6						2.5	< 0.030		13	0.10				< 0.050		21.3	7.19			2.4		18	6.4	20.4		140	< 1.0	< 4.0		1.3		
11/14/2017		140			< 0.0090				19		3.1						9.0	< 0.030		14	0.21				< 0.050		147.0	7.52			2.6		17	6.7	6.3		160	< 1.0	< 4.0	1.6			
5/16/2018		130	< 0.25		< 0.0090	< 0.0050			17		2.8		< 0.010			< 0.025	2.5	< 0.030	< 0.0050	12	0.022				< 0.050		6.6	7.11			2.3		18	5.5	12.5		140	< 1.0	4.4	0		< 0.025	< 0.020
8/27/2018		130	< 0.25		< 0.0090	< 0.0050			18		2.8		< 0.010			< 0.025	8.1	< 0.030	< 0.0050	13	0.065				< 0.050		102.5	6.77			2.1		16	6.1	22.8		140	< 1.0	< 4.0	1.4		< 0.025	< 0.020
11/5/2018		130	< 0.25		< 0.0090	< 0.0050			17		2.8		< 0.010			< 0.025	6.6	< 0.030	< 0.0050	12	0.082				< 0.050		111.5	6.07			2.2		16	< 5.0	6.2		160	< 1.0	< 4.0	2.9		< 0.025	< 0.020
6/10/2019		120	< 0.25		< 0.0090	< 0.0050			17		2.3		< 0.010			< 0.025	2.6	< 0.030	< 0.0050	12	< 0.010				< 0.050		107.5	7.40			2.3		18	< 5.0	20.1		110	< 1.0	< 4.0	0		< 0.025	< 0.020
8/21/2019		120	< 0.25		< 0.0090	< 0.0050			18		2.6		< 0.010			< 0.025	5.2	0.054	< 0.0050	13	0.047				< 0.050		149.7	7.36			2.1		15	< 5.0	21.3		130	< 1.0	< 4.0	0		< 0.025	< 0.020
11/18/2019		140	< 0.25		< 0.0090	< 0.0050			19		2.6		< 0.010			< 0.025	8.6	< 0.030	< 0.0050	13	0.036				0.43		-78.1	7.13			2.6		20	7.9	5.8		91	< 1.0	< 4.0	1.4		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W9-2E																																											
5/8/2001		121		< 0.02	< 0.01	0.036		< 0.005	16.7	< 10	1.9	< 5	< 0.01	<	188	< 0.025		0.73	< 0.005	12.2	0.13		< 0.2	< 0.04				6.69	< 10	2.3		16.3	15.8	12.8		98	< 1	< 3		21.6	< 0.025	< 0.02
8/6/2001														32																													
8/7/2001		136		< 0.02	< 0.01	0.022		< 0.005	19.5	< 10	< 0.5	< 5	< 0.01		259	< 0.025		< 0.03	< 0.005	14.5	0.086		< 0.2	< 0.04				7.64	< 10	2.3		13.4	8	22.4		140	1.4	< 3		0.83	< 0.025	< 0.02
12/3/2001		135							21.5	< 10	1.4				133			0.16	< 0.005	14.6	0.21							7.11		2.4		15.4	6.6	8.3		146	1.1	5		2.93		
5/1/2002	139	139		0.034	< 0.01	0.024		< 0.005	17.8	< 10	1.6	< 5	< 0.01	<	181	< 0.025		0.12	< 0.005	14.3	0.022		< 0.2	< 0.04				7.17	< 10	2		11	3.4	10		143	< 1	< 3		4.26	< 0.025	< 0.02
8/5/2002		139							19	< 10	1.4							< 0.03	< 0.005	14.9	0.15							6.51		2.2		11.7	3.4			167	1.8	< 3				
12/2/2002		97			< 0.01				18.8	< 10	1.6				205			< 0.03		16.3	0.017							8.66		2.2		11.4	8.2	3.2		123	< 1	< 3		1.9		
5/1/2003	98.7	98.7		< 0.02	< 0.01	0.012		< 0.005	18.6	10.8	1.7	< 5	< 0.01	<	220	< 0.025		< 0.033	< 0.005	15.4	< 0.01		< 0.2	< 0.04		68		7.11	< 10	2		11	3.1	6.6		115	< 1	< 3		< 0	< 0.025	< 0.02
8/4/2003		145			< 0.01				20	< 10	1.7				228			< 0.033		15.3	0.035							7.03		2.3		11.6	2.6	21		111	< 1	< 3		< 0		
12/1/2003		233			< 0.01				23.2	< 10	1.8				208			< 0.03		15.6	0.11							7		2.7		13.9	2.3	8.7		137	< 1	< 3		2.1		
4/30/2004	147	147	< 0.2	0.12	< 0.01	0.0094		< 0.005	18.4	< 10	< 0.5	< 5	< 0.01		265	< 0.025		< 0.03	< 0.005	14.8	< 0.01	< 0.0002	< 0.2	< 0.04		-33		6.75	< 10	1.9		10.8	3.7	6.5		126	< 1	< 3		0.2	< 0.025	< 0.02
8/4/2004	152	152		0.021	< 0.01				19.3	< 10	2.1				255			< 0.03		14.8	0.039							7.64		2.1		11.4	6.4	15.3		145	< 1	< 3		1.2		
12/1/2004	134	134		< 0.02	< 0.01				23.2	< 10	2.7				150			< 0.03		15.4	0.086							8.13		2.4		13.2	5.4	9.5		147	< 1	< 3		0.3		
4/25/2005		133	< 0.2	< 0.02	< 0.01	0.0087		< 0.005	18	< 10	2.2	< 5	< 0.01		169	< 0.025		0.14	< 0.005	14.8	< 0.01		< 0.2	< 0.04		502		7.47	< 10	1.9		11	4.5	7.8		119	< 1	< 3		15	< 0.025	< 0.02
8/8/2005		126		0.14	< 0.01				17.5	< 10	1.7				180			< 0.03		13.9	0.039							7.58		1.8		10.3	2.9	20.1		129	< 1	< 3		1.2		
12/6/2005		155		< 0.02	< 0.01				22.1	< 10	1.7				173			< 0.03		15.3	0.086							6.04		2.3		13.2	4.3	11.1		128	< 1	< 3		7.6		
4/27/2006		138	< 0.2	< 0.02	< 0.01	0.0063			18	< 10	1.6	< 5	< 0.01		201	< 0.025		< 0.03	< 0.005	14.7	< 0.01		< 0.2			153		7.53		1.8		10.7	5.1	11.4		146	< 1	< 4		< 0	< 0.025	< 0.02
8/22/2006		132		0.075	< 0.01				20.3	< 10	2.2				233			< 0.03		15	0.04									2.1		11.9	4.1	20.9		132	< 1	< 4	0.7			
12/8/2006		144		< 0.02	< 0.01				20.8		2.1							0.19		14.8	0.069									2.3		12.9	5.5	0.4		137	< 1	< 4				
5/9/2007		120	< 0.2	< 0.02	< 0.01	0.0055			16.7		2.3	< 5	< 0.01		235	< 0.025		< 0.03	< 0.005	13.7	< 0.01		< 0.2			43		7.02		1.8		9.9	6.1	15.1		105	< 1	< 4		< 0	< 0.025	< 0.02
8/14/2007		141		< 0.02	< 0.01				20.4		1.5				214			< 0.03		15.5	0.038							7.18		2.2		12.1	4.3	20.4		119	< 1	< 4		0.1		
12/11/2007		109		0.027	< 0.01				20.9		2.1				214			0.051		15.8	0.029							7.53		2.2		12.4	6.7	5.4		130	< 1	< 4		2.2		
5/6/2008		124	< 0.2	0.024	< 0.01	0.005			18.4		1.6	< 5	< 0.01		244	< 0.025		< 0.03	0.015	15.4	< 0.01		< 0.2			-156		7.62		2		11.2	3	11.9		113	< 1	< 4			< 0.025	< 0.02
8/11/2008		154		0.16	< 0.01				20.2		2.2							< 0.03		14.5	0.014							7.12		2.1		12.2	5.2			156	< 1	< 4				
12/3/2008		145		< 0.02	< 0.01				23.7		1.3							< 0.03		16.1	0.022									2.5		14.6	2.6			103	< 1	< 4				
5/11/2009		124	< 0.030	< 0.020	< 0.0050	< 0.0050			17.0		1.3	< 5.0	< 0.0100		239	< 0.0250	2.6	< 0.030	< 0.0050	14.2	< 0.0100	< 0.0002			< 0.050		-3.9	7.09			1.69		10.2	5.79	12.3		154	< 1.0	< 4.0		0	< 0.0250	< 0.0200
9/4/2009		105		0.100	< 0.0056				23.5		2.5				257		3.3	0.039		15.5	0.153				< 0.050			6.95			2.40		13.6	5.85	21		133	< 1.0	< 4.0		0		
11/11/2009		160		< 0.020	< 0.0056				22.6		2.1				231		5.9	< 0.030		15.9	0.0652				< 0.050			7.66			2.33		13.2	10.3	10.1		138	< 1.0	< 4.0		0.3		
4/30/2010		131	< 0.040	< 0.020	< 0.0056	< 0.0050			17.8		1.7	< 5.0	< 0.0100		307	< 0.0250	3.1	< 0.030	< 0.0050	14.8	< 0.0100	< 0.0002			< 0.050		115	7.04			1.74		10.7	5.40	12.9		72.0	< 1.0	< 4.0		0.9	< 0.0250	< 0.0200
8/4/2010		136		0.102	< 0.0056				20.8		2.4				269		8.2	0.223		14.8	0.0930				< 0.050			7.09			2.11		12.4	< 1.49	22.7		129	< 1.0	< 4.0		2.3		
11/10/2010		168		< 0.020	< 0.0056				22.4		2.9				279		6.8	0.174		15.6	0.0663				< 0.050			7.49			2.55		13.7	7.98	7.9		154	< 1.0	< 4.0		0.5		
5/5/2011		138	< 0.060	< 0.020	< 0.0056	< 0.0050			17.6		2.5	< 5.0	< 0.010		274	< 0.025	3.1	< 0.030	< 0.0050	15.5	< 0.010	< 0.00020			< 0.050		196.4	7.03			2.1		10.8	8.4	9.4		125	< 1.0	< 4.0		0.2	< 0.025	< 0.020
8/8/2011		139			< 0.0056				18.6		2.2				297		2.5	< 0.030		15.5	0.010				< 0.050		66.3	7.00			2.1		11.2	2.6	21.7		105	< 1.0	< 4.0		0.1		
11/7/2011		171			< 0.0056				21.8		2.0				278		3.8	0.051		15.9	0.029				< 0.050		84.3	7.03			2.3		12.8	7.3	12.0		146	< 1.0	< 4.0		1.3		
5/3/2012		154	< 0.060		< 0.0056	0.0037			17.5		2.0	< 5.0	< 0.010		240	< 0.025	3.1	< 0.030	< 0.0050	14.7	< 0.010	< 0.00020			< 0.050		70.0	6.73			1.7		10.0	10.1	8.8		133	< 1.0	< 4.0		0.1	< 0.025	< 0.020
8/8/2012		127			< 0.0056				17.5		2.2				275		4.1	0.022		14.4	0.0039				< 0.050		78.4	7.18			1.8		10.4	4.3	24.3		104	< 1.0	< 4.0		0		
11/6/2012		139			< 0.0056				20.2		2.3				238		4.4	< 0.030		14.7	0.012				< 0.050		181.5	7.39			2.2		11.5	5.7	8.2		119	< 1.0	< 4.0		0.1		
4/11/2013		136	< 0.060	< 0.020	< 0.0056	0.0037			18.0		1.6	< 5.0	< 0.010		239	< 0.025	3.3	< 0.030	< 0.0050	14.7	< 0.010	< 0.00020			0.033		52.1	7.27			1.9		10.5	7.2	9.2		148	< 1.0	< 4.0		1.6	< 0.025	< 0.020
8/15/2013		117			< 0.0056				18.7		2.4				234		2.2	< 0.03		15.1	< 0.01				< 0.05		110.1	6.94			1.8		10.4	4.8	18.4		117	0.65	< 4		0.5		
11/7/2013		157			< 0.0056				22.4		2.3				234		5.1	0.034		15.3	0.010				< 0.050		104.9	7.11			2.3		12.8	5.7	10.5		121	< 1.0	< 4.0		0.4		
5/7/2014		115	0.25		< 0.0056	0.0055			16.5		2.4	< 5.0	< 0.010		223	< 0.025	0.6	0.23	< 0.0050	14.3	0.0088	< 0.00020			0.075		94.0	7.20			1.7		9.5	8.6	10.2		162	< 1.0	< 4.0		0	< 0.025	0.0029
8/12/2014		117		< 0.020	< 0.015				16.7		2.7				171		0	< 0.030		15.2	0.0017				0.088		-8.0	6.33			1.6		10.1	5.9	24.2		141	< 1.0	< 4.0		24.7		
11/5/2014		112			< 0.0056				15.6		2.3				123		0.7	0.083		14.3	0.0058				0.080		155.0	7.42			1.6		9.8	4.9	10.0		144	< 1.0	< 4.0		0		
5/26/2015		104	0.065		< 0.0056	0.0037			16.8		2.6	< 5.0	< 0.010		200	< 0.025	0	0.034	< 0.0050	14.2	0.0014	< 0.00020			0.025		200.0	7.16			1.8		10.5	7.4	12.1		142	< 1.0	< 4.0		0	< 0.025	< 0.020
8/13/2015		106			< 0.0056				14.9		3.0				150		5.2	< 0.030		12.9	0.0012				0.052		383	7.01			1.4		8.9	12.3	19.8		114	< 1.0	< 4.0		3.8		
11/11/2015		110			< 0.0056				16		2.8				147		4.5	0.055		14	< 0.010				< 0.050		225.0	4.86			1.7		9.7	10	10.2		120	< 1.0	< 4.0		0		
5/3/2016		120	< 0.060		< 0.0056	< 0.0050			17		2.3	< 5.0	< 0.010		236	< 0.025	5.1	< 0.030	< 0.0050	14	< 0.010	< 0.00020			< 0.050		130.2	7.35			1.8		11	8.0	11.5		110	< 1.0	< 4.0		2.0	< 0.025	< 0.020
8/25/2016		140			< 0.0056				20		2.4				245		6.7	0.059		15	< 0.010				< 0.050		5.1	7.80			2.2		12	4.9	23.6		150	< 1.0	< 4.0		1.4		
11/10/2016		130			< 0.0090				18		3.2				228		4.8	< 0.030		15	< 0.010				< 0.050		-83.2	6.98			2.1		11	< 5.0	8.1		150	< 1.0	< 4.0		0.3		
5/5/2017		110	< 0.050		< 0.0090	< 0.0050			17		2.6	< 5.0	< 0.010			< 0.025	3.2	< 0.030	< 0.0050	15	< 0.010	< 0.00020			< 0.050		85.2	7.29			1.8		10	6.7	9.3		110	< 1.0	< 4.0		1.7	< 0.025	< 0.020
8/14/2017		110			< 0.0090				17		2.7						4.1	< 0.030		14	< 0.010				< 0.050		38.7	6.95			1.8		10	8.2	21.3		130	< 1.0	< 4.0		0		
11/14/2017		120			< 0.0090				17		2.8						10.9	< 0.030		14	< 0.010				< 0.050		141.4	7.64			1.9		11	6.4	6.1		150	< 1.0	< 4.0	0.8			
5/16/2018		120	< 0.25		< 0.0090	< 0.0050			17		2.7	< 1.0	< 0.010			< 0.025	3.4	< 0.030	< 0.0050	14	< 0.010				< 0.050		14.2	6.72			1.7		10	9.2	11.6		100	< 1.0	< 4.0	0		< 0.025	< 0.020
8/22/2018		120	< 0.25		< 0.0090	< 0.0050			20		2.8		< 0.010			< 0.025	2.9	0.041	< 0.0050	14	< 0.010				< 0.050		33.2	7.11			2.0		11	6.0	17.9		130	< 1.0	< 4.0	1.3		< 0.025	< 0.020
11/5/2018		110	< 0.25		< 0.0090	< 0.0050			16		3.0		< 0.010			< 0.025	8.4	< 0.030	< 0.0050	14	< 0.010				< 0.050		101.4	6.72			1.7		9.3	< 5.0	6.9		140	< 1.0	< 4.0	2.7		< 0.025	< 0.020
6/10/2019		110	< 0.25		< 0.0090	< 0.0050			18		2.5	< 1.0	< 0.010			< 0.025	4.5	< 0.030	< 0.0050	14	< 0.010				< 0.050		55.2	7.16			1.7		10	< 5.0	23.5		110	< 1.0	< 4.0	0.1		< 0.025	< 0.020
8/21/2019		120	< 0.25		< 0.0090	< 0.0050			18		2.4		< 0.010			< 0.025	3.5	< 0.030	< 0.0050	14	< 0.010				< 0.050		71.0	7.06			1.8		10	< 5.0	17.7		100	< 1.0	< 4.0	0		< 0.025	< 0.020
11/18/2019		130	< 0.25		< 0.0090	< 0.0050			18		3.3		< 0.010			< 0.025	6.5	< 0.030	< 0.0050	15	< 0.010				< 0.050		-93.3	7.26			1.9		11	< 5.0	6.4		75	< 1.0	< 4.0	0.6		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitty, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																											
W9-3E																																											
5/7/2001		115		< 0.02	< 0.01	0.027		< 0.005	21.2	< 10	< 0.5	< 5	< 0.01	<	203	< 0.025		0.38	< 0.005	16.1	0.12		< 0.2	< 0.04				6.31	< 10	2.2		10.2	12.8	15.1		165	1.1	< 3		79.2	< 0.025	< 0.02
8/6/2001														110																													
8/7/2001		155		< 0.02	< 0.01	0.024		< 0.005	25.7	< 10	1.5	< 5	< 0.01		253	< 0.025		0.058	< 0.005	20.1	0.11		< 0.2	< 0.04				7.57	< 10	2.4		10.4	8	22.1		143	1.6	< 3		1.01	< 0.025	< 0.02
12/3/2001		153							24.6	< 10	1.7				150			0.13	< 0.005	19.8	0.086							6.64		2		10.6	5.8	8.5		152	1	< 3		6.35		
5/2/2002	82.3	82.3		0.16	< 0.01	0.022		< 0.005	13	< 10	2.7	< 5	< 0.01	26	95	< 0.025		0.64	< 0.005	12.9	0.016		< 0.2	< 0.04				6.67	< 10	1.6		6.2	5.7	5.3		99	1.1	< 3		8.52	< 0.025	< 0.02
8/5/2002		78.6							9.2	< 10	2.5							0.21	< 0.005	10.9	0.029							6.23		1.2		5.6	3.7			118	2.3	< 3				
12/2/2002		32.8			< 0.01				6.6	< 10	2.9				101			0.68		8.8	0.014							7.47		1		4.7	14.6	4.3		74	1.2	< 3		1.2		
5/6/2003	59.9	59.9		< 0.02	< 0.01	0.014		< 0.005	8.6	10.4	2.9	< 5	< 0.01	17	147	< 0.025		0.087	< 0.005	11.3	< 0.01		< 0.2	< 0.04		257		6.12	< 10	0.94		6.1	6.2	6.4		101	< 1	< 3		1.4	< 0.025	< 0.02
8/4/2003		69.6			< 0.01				8.7	< 10	3.1				158			0.22		10.8	< 0.01							6.66		1.1		6.1	6.9	20.4		67	< 1	< 3		4.5		
12/1/2003		113			< 0.01				8.2	< 10	3.2				131			0.058		10.9	< 0.01							7.05		1		5.9	7.3	7.6		111	< 1	< 3		2.7		
4/30/2004	89.7	89.7	< 0.2	< 0.02	< 0.01	0.011		< 0.005	9.8	< 10	1.9	< 5	< 0.01		188	< 0.025		< 0.03	< 0.005	12.7	< 0.01	< 0.0002	< 0.2	< 0.04		34		6.53	< 10	0.89		7.2	6.1	7		111	< 1	< 3		0.4	< 0.025	< 0.02
8/4/2004	65.1	65.1		< 0.02	< 0.01				8	< 10	3.5				164			< 0.03		10.5	< 0.01							6.85		0.75		5.9	9.2	14.9		106	< 1	< 3		1.4		
12/1/2004	66.8	66.8		< 0.02	< 0.01				8.2	< 10	4.1				107			0.37		10.8	0.033							7.4		0.78		6.3	8.4	8.7		108	1.6	< 3		2.1		
4/28/2005		96.4	< 0.2	< 0.02	< 0.01	0.0077		< 0.005	9.5	< 10	4.2	< 5	< 0.01		167	< 0.025		0.035	< 0.005	12.6	0.011		< 0.2	< 0.04		18.6		6.2	< 10	0.74		10.2	8	5.7		105	< 1	< 3		2.9	< 0.025	< 0.02
8/8/2005		53.4		0.12	< 0.01				7.6	< 10	2.7				128			0.067		9.9	0.012							7.3		0.58		5.6	5.6	18.8		88	< 1	< 3		1.4		
12/6/2005		55.4		< 0.02	< 0.01				8.1	< 10	2.7				116			0.1		10.8	< 0.01							6.11		0.71		6.1	6	20.5		90	< 1	< 3		7.1		
4/27/2006		79.1	< 0.2	< 0.02	< 0.01	0.0058			9.4	< 10	2.6		< 0.01		130	< 0.025		< 0.03	< 0.005	12.6	< 0.01		< 0.2			195		6.58		0.73		7.4	5.6	8.1		120	< 1	< 4		< 0	< 0.025	< 0.02
8/22/2006		55		0.059	< 0.01				7.7	< 10	2.8				173			0.064		10.3	< 0.01									0.57		6.2	4.7	18.5		97	< 1	< 4	1.3			
W9-4E																																											
5/10/2001		188		0.15	0.015	0.022		< 0.005	10.4	< 10	3.3	< 5	< 0.01	34	315	< 0.025		2.8	< 0.005	9.2	0.11		< 0.2	< 0.04				7.82	< 10	3.4		73.7	33.2	14		227	< 1	13		425	< 0.025	< 0.02
8/6/2001		218		0.07	0.019	0.0056		< 0.005	10.4	< 10	2.5	< 5	< 0.01	35	372	< 0.025		0.038	< 0.005	8.7	0.072		< 0.2	< 0.04				7.53	< 10	3		81.4	18.4	28.5		170	3	< 3		1.62	< 0.025	< 0.02
12/3/2001		175							9.4	< 10	4.2				215			2.7	< 0.005	8.4	0.13							7.64		3.1		71.6	17.6	8.6		241	1.4	76		150		
5/1/2002	211	211		0.16	0.014	< 0.005		< 0.005	10.4	< 10	2.8	< 5	< 0.01	400	298	< 0.025		0.15	< 0.005	8.8	0.081		< 0.2	< 0.04				8.38	< 10	2.7		77.9	18.1	10.5		242	1.2	85		19.3	< 0.025	< 0.02
8/5/2002		215							9.9	< 10	2.6							< 0.03	< 0.005	8.4	0.07							7.09		2.6		78.6	16.9			293	3.6	< 3				
12/2/2002		159			0.016				10.5	< 10	2.6				349			< 0.03		8.9	0.057							8.85		2.8		82.2	17.2	2.9		234	< 1	< 3		1.5		
5/1/2003	161	161		0.035	0.016	< 0.005		< 0.005	10.5	< 10	3	< 5	< 0.01	<	372	< 0.025		< 0.033	< 0.005	8.9	0.082		< 0.2	< 0.04		-28		8.19	< 10	2.5		77.3	18.6	6.3		222	< 1	< 3		< 0	< 0.025	< 0.02
8/4/2003		240			0.021				10.2	< 10	2.6				391			< 0.033		8.1	0.068							8.14		2.7		78	16.8	19.4		228	< 1	< 3		< 0		
12/1/2003		313			0.02				10	< 10	2.8				360			< 0.03		8.2	0.044							7.71		2.8		83.5	21.2	7.8		276	< 1	< 3		1.9		
4/29/2004	247	247	< 0.2	0.081	0.014	< 0.005		< 0.005	9.9	< 10	1.8	< 5	< 0.01		441	< 0.025		0.064	< 0.005	8.1	0.081	< 0.0002	< 0.2	< 0.04		-12		8.3	< 10	2.4		78.7	20.3	10		223	< 1	< 3		0.6	< 0.025	< 0.02
8/4/2004	239	239		0.13	0.02				9.8	< 10	3.3				429			< 0.03		8	0.068							8.4		2.6		84.8	21.7	17.9		264	< 1	< 3		0.8		
12/3/2004	225	225		< 0.02	0.022				9.7	< 10	3.6				229			0.084		8	0.029							7.73		2.8		83.5	19.7	6		246	< 1	< 3		3.3		
4/25/2005		233	< 0.2	0.12	0.021	< 0.005		< 0.005	9.6	< 10	3.1	< 5	< 0.01		269	< 0.025		< 0.03	< 0.005	8.1	0.089		< 0.2	< 0.04		386		8.34	< 10	2.4		77.7	19.2	6.8		266	< 1	< 3		2.5	< 0.025	< 0.02
8/8/2005		204		0.48	0.018				9.3	< 10	2.7				319			0.037		7.6	0.068							8.47		2.4		76	18.3	19.5		340	< 1	< 3		0.9		
12/6/2005		211		< 0.02	0.022				9.5	< 10	2.8				266			< 0.03		7.8	0.013							7.27		2.6		76.8	18.5	9.7		348	< 1	< 3		6.4		

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-10																																																						
5/5/1993		8	0.2	0.1	< 0.01		< 0.1	< 5	< 0.005	3.7		22	2		< 0.01		139	< 0.02			0.37		0.007		1.2		0.023			< 0.003	< 0.029999					6.26		< 0.00001	< 3		< 0.02	2		6	16.1	< 0.01	39	11	< 3			< 0.01	< 0.02
11/30/1993				0.068				4		3.9		39	4.8			2400	55			3.8	1.1		0.0013		1.8		0.077								6.03		0.11				2.2		9.2	4.5		63	13.9	7	< 0				
2/7/1994																	<																			<											<				< 0			
5/23/1994				< 0.02				3		7.07		33	3.5	< 2	< 0.0058	56	604			7.1	0.789		0.001		1.95		0.063								6.79	< 1	< 0.1				2.79		3.1	18.7		58	11.8	< 3	< 0				
8/16/1994																	<																			<											<				< 0			
11/30/1994				< 0.02				2		3.03		21	3.1			1610	44			3	0.856		< 0.0009		1.27		0.16								7.62		< 0.2				2.22		3.2	0.8		32	7.6	4	< 0				
3/2/1995				0.15				2		7.56		20	3.9			640	65			7.6	4.15		0.0033		3.11		0.975								8.5		< 0.2				2.55		4.8	1.4		54	6	9	< 0				
5/11/1995																	<																			<											<				< 0			
8/23/1995																	<																			<											<				< 0			
12/6/1995				0.03				< 2		3.8		16	3.5			<	60			3.8	0.3		< 0.0009		1.34		0.0701								8.25		0.22				2.4		3.4	1.7		36	5.5	5	< 0				
2/28/1996				< 0.02				< 2		2.48		11	2.4			100	122			2.5	0.243		0.001		0.901		0.0253								8.37		< 0.2				1.9		3.9	1.6		32	5	4	< 0				
5/22/1996				< 0.02				< 2		3.07		36	1.6	< 0.4	< 0.0034	<	37			3.1	0.315		< 0.0009		1.07		0.0149								7.2	< 2	< 0.2				1.98		1.1	17.3		28	10.6	< 3	< 0				
SW-101																																																						
5/5/1993		< 1	0.5	0.16	< 0.01		< 0.1	< 5	< 0.005	2.5		35	6		< 0.01	30	58	< 0.02			0.61		< 0.005		0.7		0.049			< 0.003	< 0.029999					5.8		0.1	< 3		< 0.02	2		4	11.1	< 0.01	37	13	< 3			< 0.01	< 0.02
11/30/1993				< 0.02				3		4.2		50	4.4			80	50			4	0.32		< 0.0008		1		0.055								5.8		0.19				2.7		1.2	2		76	17.5	< 3	< 0				
2/7/1994																	<																			<											<				< 0			
5/23/1994				< 0.02				< 2		3.27		35	5.5	< 2	< 0.0058	67	73			3.3	0.597		0.0011		0.717		0.0934								6.34	< 1	< 0.1				4.22		1.6	13.6		30	13.3	3	< 0				
8/16/1994				0.073				2		6.25		67	4.2			8700	58			6.3	7.68		0.0031		1.41		1.45								6.25		< 0.2				3.78		6.1	15.3		60	22.6	59	< 0				
11/30/1994				< 0.02				2		3.22		27	5.1			730	58			3.2	0.591		< 0.0009		0.764		0.0651								6.94		< 0.2				3.21		2.8	1.4		62	11.5	3	< 0				
3/2/1995				0.03				2		4.07		23	5.4			152	43			4.1	0.607		0.0015		1.07		0.0562								9.62		< 0.2				5.42		1.5	1		30	7.2	315	< 0				
5/11/1995				< 0.02				< 2		3.4		32	6.4			450	<			3.4	0.639		< 0.0009		0.795		0.0743								<		< 0.2				4.29		1	<		39	11.4	3	< 0				
8/23/1995																	<																			<											<				< 0			
12/6/1995				< 0.02				< 2		3.07		28	5.3			<	59			3.1	0.247		< 0.0009		0.739		0.0266								7.62		< 0.2				3.01		5.6	0.1		63	9.8	< 3	< 0				
2/28/1996				< 0.02				< 2		2.33		20	4.5			28	107			2.3	0.199		< 0.0009		0.546		0.0278								8.44		< 0.2				3.03		4.8	4.9		26	8.1	< 3	< 0				
5/22/1996				< 0.02				< 2		2.9		47	4.2	< 0.4	< 0.0034	<	34			2.9	0.453		< 0.0009		0.548		0.0417								7.53	< 2	< 0.2				2.74		0.9	13		54	14.6	< 3	< 0				
8/14/1996								2		9.87		89					71				7.41		0.0024		1.34		1.22								6.69				3.91		4.09			13.1		74	20.2	34	< 0				
12/4/1996								< 2		2.56		42					37				0.428		< 0.001		0.638		0.0643								8.21				0.66		2.38			0.73		49	12.3	18	< 0				
5/5/1997		< 10		0.023	< 0.003		0.0064	< 2	< 0.0044	3		58	5.2	< 0.4	< 0.004		60	< 0.01		3	0.418		0.0015		0.745		0.035			< 0.049999	< 0.018999					6.74	< 2			0.35		3.29		< 1.399999	11.6		42	10.3	< 3	< 0		< 0.007	< 0.01
8/11/1997																	<																			<											<				< 0			
12/3/1997								2				25					44																			7.35									7.5		8	13.3	< 3	< 0				
12/18/1997										4.56							<				1.05		0.0022		1.22		0.109								<				0.68		4.12			<							< 0			
4/23/1998		10		< 0.02	< 0.003		0.0066	< 2	< 0.004	3.51		36	6.6	< 0.4	< 0.004		32	< 0.011		3.5	0.445		0.0027		0.765		0.0255			< 0.099999	< 0.018999					6.05				0.33		3.88		1	8.9		45	11.3	< 3	< 0		< 0.007	0.0175
8/19/1998								2		4.53		30					38				2.46		0.0014		1.05		0.25								6.74	< 1			0.86		2.72			15.3		55	11.6	53	< 0				
12/2/1998								< 2		4		50.4									0.57		< 0.005		0.78		0.025												0.27		4.2					35	17	< 3				
4/27/1999		5.7		0.093	< 0.01		0.015	2.1	< 0.005	9.6		52.3	7.1	< 5	< 0.01		47	< 0.025			0.44		< 0.005		2.2		0.035			< 0.2	< 0.04					6.48	< 10			0.53		21.8		2.1	7.6		47	11.4	7			< 0.025	0.021
8/9/1999								< 2		10.2		19					118				0.33		< 0.005		1.9		0.15								6.86				1.4		4.8			19.7		73	10.3	< 3				
11/16/1999								5		3.3		82.1					35				0.44		< 0.005		0.78		0.022							4.96				< 0.79		3.9			3.1		52	16	6.5				
4/26/2000		< 5		0.02	< 0.01		0.0068	< 2	< 0.005	2.5		25.3	5.2	< 5	< 0.01		33	< 0.025			0.28		< 0.005		0.65		0.018			< 0.2	< 0.04					7.5	< 10			0.43		3.3		10.5	8.1		75	10.3	5			< 0.025	< 0.02
8/21/2000								< 2		4.7		43.5					53				1.1		< 0.005		0.93		0.091								6.65				0.41		4.2			17.5		31	20	< 3				
5/7/2001		< 5		0.02	< 0.01		0.0075	< 2	< 0.005	3.6		26.7	8.5	< 5	< 0.01		47	< 0.025			0.54		< 0.005		0.86		0.055			< 0.2	< 0.04					6.59	< 10			0.48		4.6		1.2	14.9		63	15.1	< 3			< 0.025	< 0.02
12/3/2001								< 2		5.7		36.4					61				0.6		< 0.005		1.3		0.028								7.13				0.48		5.2			5.2		33	21.7	< 3				
5/7/2002	< 5	< 5		< 0.02	< 0.01		0.0075	< 2	< 0.005	3.5		31.6	9.8	< 5	< 0.01		54	< 0.025			0.42		< 0.005		0.75		0.028			< 0.2	< 0.04					7.74	< 10			0.48		5.6		4.1	15.1		169	12.2	< 3			< 0.025	< 0.02
4/28/2003	< 5	< 5		0.05	< 0.01		0.013	< 2	< 0.005	3.6		41.2	10.1	< 5	< 0.01		55	< 0.025			0.27		< 0.005		0.83		0.021			< 0.2	< 0.04	155				6.54				0.46		6.2		7.3	13.2		90	11.3	< 3		< 0	< 0.025	< 0.02
8/11/2003										5.9		63.4					60				1.7		< 0.005		1.1		0.19								6.41				0.57		5.6			26.3		114	28.9	7		4		
12/5/2003										3.4		24.6					44				0.39		< 0.005		0.78		0.026								6.48				0.33		4.8			0.1		70	10.1	< 3		2		
5/12/2004	< 5	< 5	0.33	0.12	< 0.01		0.0069	< 2	< 0.005	3.5		36.4	8.8	< 5	< 0.01		55	< 0.025			0.55		< 0.005		0.75		0.047		< 0.0002	< 0.2	< 0.04	132				6.79	< 10			0.45		4.8		30.9	15.9		49	10.6	< 3		2.3	< 0.025	< 0.02
8/9/2004	< 5	< 5		0.2	< 0.01					7.2		59	8.5				62				12.1		0.013		2.8		2.1								6.87				1.6		5		< 1	17.4		41	22.6	9		91.9		
12/7/2004	8.6	8.6		0.073	< 0.01					3.5		33	8.7				90				0.53		< 0.005		0.81		0.041								7.4				0.42		4.3		< 1	1.7		58	16.6	< 3		2.1		
5/4/2005								< 2																																														
5/4/2005		< 5	0.24	< 0.02	< 0.01		0.0058		< 0.005	2.4		36.6	6.2	< 5	< 0.01		41	< 0.025			0.29		< 0.005		0.55		0.019			< 0.2	< 0.04	108				7.86	< 10			0.39		4.7		< 1	8.2		79	10.9	< 3		2.8	< 0.025	< 0.02
5/15/2006		< 5	0.35	0.043	< 0.01		0.0063	< 2		3.2		29.1	7.1			255	< 0.025			0.36		< 0.005		0.69		0.027			< 0.2		78				6.2				0.52		4.1		< 1	12.6		52	13.3	6		2		< 0.02
8/30/2006		< 5		0.12	< 0.01					4.8		59.4	6.3				44				1.1		< 0.005		0.95		0.088												0.4		3.8		< 1	20.1		81	24.6	13	3.2			
12/14/2006		< 5		0.022	< 0.01					2.6		35.6	4.5								0.35		< 0.005		0.64		0.025												0.33		4.4		< 1	3.8		34	7.1	12	8.2			
5/11/2007								< 2																																													
5/18/2007		< 5	0.43	< 0.02	< 0.01		0.0062			2.4		31.3	5.5				32	< 0.025			0.47		< 0.005		0.6		0.03			< 0.2		192.6				5.8				0.44		3.1		< 1	6.7		39	10.9	4		1.3		< 0.02
8/16/2007		< 5		0.34	< 0.01					4.7		46.5	8.5				50				1		< 0.005		0.94		0.075								7				0.44		4.2		< 1	16.8		52	15.3	10		3.9		
12/5/2007		< 5		0.3	< 0.01					3.3		21	6.7				71				0.39		< 0.005		0.79		0.023								5.75				0.3		4.1		3.3	0.9		63	9.2	< 4		0.9		
5/1/2008		< 5	0.32	0.11	< 0.01		< 0.005	15.5		2.1		21.7	4.9				32	< 0.025			0.23		< 0.005		0.44		0.014			< 0.2		-65.2				6.45				0.29		2.7		< 1	10.5		34	5.8	< 4		1.5		< 0.02
8/18/2008		< 5		0.26	0.026					7.3		77.5	9.2								30.1		0.021		2.9		3.1								7.29				1.9		4.7		< 1			92	29.4	134				
12/16/2008		< 5		0.085	< 0.01					2.2		16.7	5								0.32		< 0.005		0.58		0.026												0.34		3.3		1.4			45	3.7	< 4				
5/13/2009		< 5.0	0.350	< 0.020	< 0.0100		0.0069	2.2		3.4		37.1	5.7				46	< 0.0250	12.7		1.02		< 0.0050		0.751		0.199		< 0.0002		< 0.050		50	6.92				0.573		3.8		1.32	15.9		64.0	13.8	< 4.0		2.3		< 0.0200
9/3/2009		< 10.0		0.413	0.0068					5.2		50.9	6.8				54		5.7		2.67		< 0.0050		1.04		0.440				< 0.050			6.43				0.758		3.8		< 1.49	18.4		100	16.1	< 4.0		6.2		
11/13/2009		< 10.0		0.035	< 0.0056					3.4		45.3	7.8				43		11		0.764		< 0.0050		0.819		0.0596				< 0.050			7.22				0.480		3.9		3.26	3.1		42.0	12.1	< 4.0		1.6		
5/6/2010		< 10.0	0.474	0.050	< 0.0056		0.0066	< 2.0		3.2		39.0	5.4				43	< 0.0250	7.6		0.909		< 0.0050		0.704		0.113		< 0.0002		< 0.050		159	7.05				0.542		3.0		< 1.49	13.5		37.0	11.4	< 4.0		2.2		< 0.0200
8/11/2010		26.2		0.341	< 0.0056					9.4		26.4	4.0				95		2.9		3.29		< 0.0050		1.72		3.34				0.111		135	5.58				1.30		2.8		< 1.49	20.3		94.0	13.7	62.0		21.9		
11/12/2010		< 10.0		< 0.020	< 0.0056					2.9		44.1	5.3				40		10.8		0.501		< 0.0050		0.701		0.0337				< 0.050		207.9	5.97				0.369		3.0		< 1.49	5.5		84.0	10.8	< 4.0		1.1		
5/11/2011		< 10.0	0.33	< 0.020	< 0.0056		0.0056	< 2.0		2.9		29.1	5.3				39	< 0.025	9.8		0.49		< 0.0050		0.64		0.037		< 0.00020		< 0.050		92	7.06				0.39		3.3		< 1.5	13.1		37.0	9.7	< 4.0		2.5		< 0.020
8/9/2011		< 10.0			0.0066					5.9		42.1	3.7				62		5.2		4.5		0.0051		1.2		1.0				0.18		67.6	5.94				0.86		3.0		< 1.5	21.6		76.0	12.0	36.4		13.4		
11/14/2011		< 10.0			< 0.0056					3.8		41.2	7.0				54		10.5		0.96		< 0.0050		0.84		0.047				< 0.050		-5.0	7.17				0.53		4.2		3.3	9.2		108	7.9	< 4.0		2.3		
5/9/2012		< 10.0	0.31		< 0.0056		0.0062	< 2.0		3.2		18.4	9.1				70	< 0.025	5.9		0.40		< 0.0050		0.70		0.030		< 0.00020		< 0.050		65.9	7.00				0.57		4.7		1.8	11.1		64.0	10.0	< 4.0		2.6		< 0.020
8/16/2012		< 10.0			< 0.0056					5.6		42.0	4.7				53		6.9		2.4		0.0031		1.2		0.26				0.034		19.7	6.15				1.3		2.8		< 1.5	19.0		65.0	9.3	26.4		26.4		
11/9/2012		< 10.0			< 0.0056					3.1		37.9	6.7				52		10.1		0.50		< 0.0050		0.73		0.030				0.060		160.1	6.18				0.56		3.6		< 1.5	5.3		75.0	4.5	< 4.0		2.4		
4/12/2013		< 10.0	0.20	0.030	< 0.0056		0.0044	< 2.0		2.5		22.8	6.0				40	< 0.025	11.2		0.27		< 0.0050		0.59		0.023		< 0.00020		0.082		98.9	5.07				0.41		3.6		< 1.5	2.7		57.0	9.9	< 4.0		1.9		0.0027
8/14/2013		< 10			< 0.0056					3.6		46.1	7				45		9.1		1.1		< 0.005		0.7		0.074				< 0.05		131.4	6.5				0.27		3.4		< 1.5	19.6		81	19.6	< 4		5.1		
11/11/2013		< 10.0			< 0.0056					3.6		44.3	6.5				49		9.0		0.73		< 0.0050		0.82		0.041				0.038		44.7	7.35				0.49		3.8		< 1.5	5.2		56.0	13.4	< 4.0		5.1		
5/7/2014		< 10.0	0.29		< 0.0056		0.0058	10.0		2.5		34.6	7.7				39	< 0.025	13.5		0.34		< 0.0050		0.56		0.022		< 0.00020		< 0.050		134.0	7.92				0.39		3.9		< 1.5	11.3		46.0	9.9	< 4.0		0		0.0059
8/14/2014		< 10.0		< 0.020	< 0.0056					3.1		51.3	4.5				28		6.7		0.79		< 0.0050		0.61		0.069				0.033		158.0	5.68				0.46		2.9		< 1.5	16.1		74.0	18.6	< 4.0		8.3		
11/4/2014		< 10.0			< 0.0056					3.7		43.5	7.5				37		7.2		0.97		< 0.0050		0.92		0.087				< 0.050		153.0	5.83				0.73		4.4		< 1.5	4.6		84.0	16.0	< 4.0		0.7		
4/28/2015		< 10.0	0.45		< 0.0056		0.0061	2.0		2.3		20.6	7.2				32	< 0.025	8.4		0.50		< 0.0050		0.56		0.028		< 0.00020		0.026		146	6.50				0.52		3.9		< 1.5	8.8		35.0	7.3	< 4.0		7.4		0.0040
8/10/2015		< 10.0			< 0.0056					5.5		45.8	9.9				58		5.8		2.9		< 0.0050		1.2		0.22				0.15		141.0	6.68				1.3		5.4		< 1.5	17.9		52.0	13.2	9.6		14.8		
11/10/2015		< 10			< 0.0056					3.7		46	8.1				22		9.3		1.2		< 0.0050		0.83		0.11				< 0.050		209.0	5.13				0.74		4.1		< 1.5	4.9		46	20	< 4.0		2.4		
5/17/2016		< 10	0.34		< 0.0056		0.0058	< 2.0		3.2		23	7.7				50	< 0.025	8.8		0.81		< 0.0050		0.71		0.069		< 0.00020		< 0.050		52.3	8.20				0.60		4.4		2.1	14.5		22	9.7	< 4.0		4.7		< 0.020
8/18/2016		< 10			< 0.0056					9.2		38	5.0				78		5.6		3.3		0.0025		1.8		0.73				0.20		87.8	6.26				1.6		4.4		5.4	21.5		51	11	25		12.3		
11/9/2016		< 10			< 0.0090					5.7		32	6.6				70		10.0		1.1		0.00043		1.4		0.19				< 0.050		110.6	6.61				1.0		4.7		9.6	8.1		72	16	< 4.0		4.0		
5/25/2017		< 10	0.60		< 0.0090		0.0093	< 2.0		4.2		29	9.3					< 0.0020	8.9		1.4		0.00095		0.83		0.23		< 0.00020		< 0.050		40.5	7.17				0.58		5.3		< 5.0	14.5		62	12	6.8		4.7		< 0.020
8/17/2017		< 10			< 0.0090					6.6		34	6.2						5.1		2.6		0.0014		1.3		0.55				0.14		68.7	6.29				1.6		4.3		< 5.0	18.4		86	15	12		8.7		
11/17/2017		< 10			< 0.0090					3.9		20	11						10.5		1.3		0.00071		0.94		0.19				< 0.050		90.0	5.78				0.89		5.8		< 5.0	3.4		67	18	< 4.0	2.8			
5/2/2018		< 10	0.32		< 0.0090		0.0070	< 2.0		2.9		44	9.4					< 0.0020	7.2		0.53		0.00051		0.64		0.049				< 0.050		10.4	6.78				0.52		5.6		< 5.0	20.1		57	9.9	< 4.0	1.8			< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-101																																																						
8/29/2018		< 10			0.013					7.6		68	13						3.1		13		0.0043		1.6		7.7					0.29		72.5	5.96				1.4			6.0		< 5.0	22.6		100	19	230	43.0			
11/15/2018		< 10			< 0.0090					3.9		48	12						12.4		0.81		0.00045		0.86		0.081					< 0.050		39.4	6.05				0.61			5.9		< 5.0	0.7		65	15	< 4.0	6.5			
5/15/2019		< 10	0.28		< 0.0090		0.0066	< 2.0		2.8		39	10					< 0.0020	8.5		0.55		< 0.00040		0.59		0.052					< 0.050		76.8	6.23				0.35			5.2		< 5.0	10.7		40	9.2	< 4.0	3.2			< 0.020
8/22/2019		< 10				< 9.0					3600	90	6.7						8.9			1900		4.5		1000		130				< 0.050		192.9	5.04					920			3200	< 5.0	20.6		80	22	150	16.2			
11/18/2019		< 10				< 9.0					4000	39	15						11.1			1300		0.53		930		170				< 0.050		-44.8	6.67					600			7000	< 5.0	1.5		42	15	< 4.0	24.9			
SW-102																																																					
5/5/1993		30	< 0.01	0.08	< 0.01		< 0.1	< 5	< 0.005	7.6		24	8		< 0.01	8	93	< 0.02			0.21		< 0.005		2		0.032			< 0.003	< 0.029999						6.52		0.04	< 3		< 0.02	5		4	17.7	< 0.01	51	11	16			< 0.01	< 0.02
12/1/1993				0.06				3		11.5		35	12			220	134			11.7	1		0.0008		3.3		0.017										6.65		< 0.1				6		8.6	<		102	10.9	4	< 0			
2/7/1994																	<																				<									<					< 0			
5/23/1994				< 0.02				< 2		13		30	9.2	< 2	< 0.0058	1360	58			13	0.681		< 0.0008		2.81		0.424										6.51	< 1	< 0.1				6.42		1	16.4		90	10.5	3	< 0			
8/16/1994				0.12				2		14.6		55	7.1			9200	186			14.6	6.3		0.0011		3.15		1.99										6.76		< 0.2				6.05		< 0.699999	17		82	16.6	8	< 0			
11/30/1994				0.066				< 2		14.3		28	17.3			1570	158			14.3	2.01		< 0.0009		3.07		0.306										7.31		< 0.2				7.42		4.7	1.3		98	9.8	13	< 0			
3/2/1995				0.35				2		14.8		17	17.8			540	126			14.8	2.8		0.0019		2.81		0.428										8.25		< 0.2				8.5		2.9	1.6		92	5	39	< 0			
5/11/1995				< 0.02				< 2		10.2		29	15.3			500	114			10.2	0.961		< 0.0009		2		0.126										7.72		< 0.2				8.36		1.9	13.8		66	8.8	3	< 0			
8/24/1995				0.21				5		14.9		13	4.1	< 0.4	< 0.0034	300	121			14.9	4.12		< 0.0009		2.36		1.09										6.84	< 2	< 0.2				4.59		1	18.4		88	5.7	8	< 0			
12/6/1995				< 0.02				< 2		10.6		28	11.1			<	128			10.6	0.67		< 0.0009		2.18		0.167										8.85		< 0.2				5.8		7.7	0.3		94	9.2	< 3	< 0			
2/28/1996				< 0.02				< 2		7.08		11	9			100	73			7.1	0.306		< 0.0009		1.48		0.0333										7.7		< 0.2				5.38		5.5	2.3		62	5.3	3	< 0			
5/22/1996				< 0.02				< 2		9.82		44	7.6	< 0.4	< 0.0034	<	101			9.8	0.888		< 0.0009		1.99		0.183										7.05	< 2	0.24				5.77		2.2	20.5		94	11.4	< 3	< 0			
8/14/1996																	<																				<									<					< 0			
12/4/1996								< 2		7.72		28					56				3.92		0.002		1.43		0.237										8.38			1.64			3.27			1.1		43	9.2	< 3	< 0			
5/6/1997		24		0.048	0.0044		0.0063	< 2	< 0.0044	5.51		11	8.3	< 0.4	< 0.004		111	< 0.01		5.5	0.432		< 0.001		1.21		0.044			0.08	< 0.018999						7.18	< 2		1.06			5.56		2	8.7		60	8.7	4	< 0		< 0.007	< 0.01
8/12/1997																	<																				<									<					< 0			
12/3/1997								3		10.7		44					81				12.2		0.0098		2.68		2.91										6.72			2.37			5.67			0.6		79	11	45	< 0			
4/23/1998		18		< 0.02	< 0.003		0.0074	< 2	< 0.004	6.14		15	10.4	< 0.4	< 0.004		62	< 0.011		6.1	0.377		0.0028		1.29		0.0235			< 0.099999	< 0.018999						5.99			1.07			6.24		3.2	13.3		60	8.4	3	< 0		< 0.007	< 0.01
8/20/1998																	<																				<									<					< 0			
12/2/1998								< 2		19.5		27.1									1.1		< 0.005		4.9		0.056													1.4			8.3					< 5	10.1	3				
4/27/1999		13.3		0.093	< 0.01		0.058	8.2	< 0.005	7.4		44.1	14.6	< 5	< 0.01		90	< 0.025			3		< 0.005		1.6		0.58			< 0.2	< 0.04						6.82	< 10		1.7			11.3		5.3	11.4		63	9	32.5			< 0.025	0.042
11/16/1999								5		6		131					80				2.7		< 0.005		1.8		0.52								7.46			1.2			4.8			3.5		53	16.9	7.5				
4/27/2000		9.8		< 0.02	< 0.01		0.0059	< 2	< 0.005	4.6		< 10	7.2	< 5	< 0.01		54	< 0.025			0.26		< 0.005		1		0.018			< 0.2	< 0.04						7.65	< 10		0.9			5.1		3	10.5		77	7.6	41.5			< 0.025	< 0.02
5/7/2001		9.8		< 0.02	< 0.01		0.0067	< 2	< 0.005	5.6		16.9	13.5	< 5	< 0.01		74	< 0.025			0.46		< 0.005		1.1		0.043			< 0.2	< 0.04						6.42	< 10		0.92			7.2		1	19.1		73	11.4	13			< 0.025	< 0.02
12/3/2001								< 2		7.7		25.8					432				0.45		< 0.005		1.8		0.036										7.7			1.6			9.7			6.2		68	13	14				
5/7/2002	16.2	16.2		< 0.02	< 0.01		0.042	9.8	< 0.005	8.1		126	11.9	< 5	< 0.01		74	0.03			3.4		0.052		2.2		0.2			< 0.2	< 0.04						7.55	< 10		1.6			7		10.7	26		78	13.1	< 3			< 0.025	0.083
4/28/2003	12.8	12.8		< 0.02	< 0.01		0.014	< 2	< 0.005	7.7		31.2	19.1	< 5	< 0.01		95	< 0.025			0.25		< 0.005		1.8		0.018			< 0.2	< 0.04		163				6.11			1.6			8.9		7.5	17		105	7.9	< 3		0.9	< 0.025	< 0.02
8/11/2003										12.6		180					121				7.6		< 0.005		2.5		1.2										6.36			1.3			9.1			26		184	23.1	11		31.8		
12/5/2003										11.7		113					101				13.3		0.017		3.8		1.2										6.18			2.8			10.1			0.1		90	10.3	364		15.2		
5/12/2004	13.1	13.1	< 0.2	0.12	< 0.01		0.008	< 2	< 0.005	7.2		33.1	16.2	< 5	< 0.01		112	< 0.025			0.69		< 0.005		1.6		0.13		< 0.0002	< 0.2	< 0.04		150				6.51	< 10		1.2			8.9		3.6	18.8		58	7.8	9		3.8	< 0.025	< 0.02
8/9/2004	11.6	11.6		0.22	< 0.01					9.1		44.7	10.9				101				3.7		< 0.005		1.8		0.67										6.36			1.3			7.2		< 1	19.4		74	16.9	6		15.9		
4/25/2005		14.3	0.28	0.083	< 0.01		0.0066	< 2	< 0.005	5		43	12.6	< 5	< 0.01		55	< 0.025			0.42		< 0.005		1.1		0.022			< 0.2	< 0.04		420				7.61	< 10		1.1			8		< 1	9.8		72	8.2	< 3		4.5	< 0.025	< 0.02
8/12/2005		23.9		0.14	< 0.01					8.7		64.9	8.9				91				7.3		< 0.005		1.7		2.2										7.44			1.4			7.3		< 1	24		53	15.6	59		7.4		
11/13/2009		13.0		0.113	< 0.0056					6.1		20.0	7.6				65		10.3		0.663		< 0.0050		1.19		0.0717				< 0.050			6.85					1.49			5.2		2.63	5.2		59.0	9.9	6.0		5.2		
5/6/2010		19.5	0.201	0.058	< 0.0056		0.0068	< 2.0		6.5		21.1	5.1				77	< 0.0250	3.2		0.588		< 0.0050		1.17		0.0640		< 0.0002			0.063		181	7.23				0.633			5.1		< 1.49	17.8		31.0	7.3	< 4.0		2.9		< 0.0200
8/11/2010		20.2		0.205	< 0.0056					8.9		25.8	2.0				81		8.4		0.889		< 0.0050		1.38		0.146					0.134		21	7.27				1.06			2.7		1.64	25.5		46.0	7.2	< 4.0		8.8		
11/12/2010		14.2		< 0.020	< 0.0056					4.8		25.8	4.8				60		11.3		0.304		< 0.0050		0.974		0.0125					< 0.050		196.3	6.59				1.00			3.9		< 1.49	5.1		49.0	5.9	< 4.0		1.8		
5/11/2011		16.0	0.37	< 0.020	< 0.0056		0.0078	< 2.0		6.9		15.5	9.8				86	< 0.025	8.5		0.63		< 0.0050		1.3		0.094		< 0.00020			< 0.050		184	7.53				0.93			6.6		< 1.5	16.8		50.0	6.5	5.2		4.1		< 0.020
8/9/2011		39.6			< 0.0056					12.7		25.1	4.0				131		9.7		2.6		< 0.0050		2.2		0.45					0.10		114.0	6.90				1.4			5.6		< 1.5	21.8		83.0	7.6	150		28.6		
11/14/2011		19.1			< 0.0056					6.3		19.3	9.4				92		9.8		0.42		< 0.0050		1.3		0.017					< 0.050		42.0	7.35				1.6			5.9		2.5	10.3		56.0	8.9	< 4.0		6.0		
5/9/2012		15.8	0.43		< 0.0056		0.0091	< 2.0		6.4		12.3	11.4				101	< 0.025	4.0		0.50		< 0.0050		1.2		0.071		< 0.00020			< 0.050		93.5	7.05				0.80			6.5		< 1.5	12.7		113	7.2	< 4.0		4.8		< 0.020
8/16/2012		18.8			< 0.0056					9.1		37.9	9.5				103		6.1		1.5		< 0.0050		1.8		0.21					0.058		10.3	6.50				1.8			6.4		< 1.5	19.7		71.0	7.2	29.2		17.2		
11/9/2012		15.3			< 0.0056					5.7		28.3	10.7				82		10.2		0.31		< 0.0050		1.2		0.016					0.020		67.6	6.22				1.6			5.9		< 1.5	6.0		46.0	2.7	< 4.0		7.4		
4/12/2013		8.1	0.16	0.022	< 0.0056		0.0060	< 2.0		5.4		14.9	14.2				92	< 0.025	10.9		0.24		< 0.0050		1.0		0.023		< 0.00020			0.037		159.5	5.72				0.89			6.9		< 1.5	4.0		70.0	6.2	< 4.0		4.3		0.0026
8/14/2013		17.8			< 0.0056					7.4		33.7	10.7				90		5.5		0.67		< 0.005		1.2		0.04					< 0.05		402	7.3				0.37			6.3		< 1.5	22.7		88	11.6	5.2		7.6		
11/11/2013		17.5			< 0.0056					7.5		31.3	14.2				106		13.0		0.27		< 0.0050		1.5		0.019					0.020		72.9	8.08				1.4			8.2		< 1.5	4.4		68.0	6.4	< 4.0		7.8		
5/8/2014		14.3	0.20		< 0.0056		0.0079	< 2.0		7.2		26.1	18.8				94	0.0035	8.6		0.30		< 0.0050		1.2		0.022		< 0.00020			< 0.050		100	7.94				1.1			9.8		< 1.5	18.2		45.0	6.4	< 4.0		0		0.0020
8/14/2014		7.8		< 0.020	< 0.0056					5.2		43.8	7.8				50		6.0		0.57		< 0.0050		0.97		0.020					0.034		136.0	6.11				0.72			5.0		< 1.5	16.4		62.0	13.8	< 4.0		11.1		
11/4/2014		18.4			< 0.0056					7.1		27.7	11.2				70		7.5		0.36		< 0.0050		1.4		0.018					0.035		136.0	6.60				1.2			7.0		< 1.5	4.5		66.0	5.3	< 4.0		0		
4/28/2015		11.4	0.13		< 0.0056		0.0065	< 2.0		5.7		13.4	15.4				70	< 0.025	8.9		0.18		< 0.0050		1.0		0.012		< 0.00020			< 0.050		204	6.13				0.90			7.7		< 1.5	7.6		47.0	4.9	< 4.0		3.3		0.0031
8/10/2015		7.9			< 0.0056					16.4		22.8	3.4				102		3.4		1.5		< 0.0050		2.4		0.37					0.049		135.0	8.10				1.1			4.9		< 1.5	16.8		60.0	3.8	< 4.0		188.0		
11/10/2015		16			< 0.0056					7.2		18	12				47		9.9		0.25		< 0.0050		1.3		0.019					< 0.050		111.0	7.23				1.0			7.5		1.6	4.8		48	8.6	< 4.0		0		
5/17/2016		11	0.85		< 0.0056		0.012	< 2.0		7.0		12	15				92	< 0.025	9.4		0.95		< 0.0050		1.4		0.032		< 0.00020			< 0.050		97.8	7.30				0.73			9.3		2.1	17.3		42	6.3	11		21.9		< 0.020
8/18/2016		33			< 0.0056					15		18	4.5				120		7.7		1.4		0.00075		2.2		0.18					0.066		177.1	6.39				1.2			5.6		20	21.7		65	4.3	14		10.9		
11/9/2016		12			< 0.0090					8.9		19	15				123		10.8		0.28		< 0.00040		1.7		0.024					< 0.050		79.5	7.10				1.3			9.6		16	7.5		80	11	11		2.8		
5/25/2017		22	0.40		< 0.0090		0.012	2.2		10		17	22					< 0.0020	9.4		0.73		0.00044		1.7		0.13		< 0.00020			< 0.050		45.7	7.32				0.62			11		< 5.0	16.4		78	7.2	7.6		7.9		< 0.020
8/17/2017		33			< 0.0090					12		12	3.5						7.3		8.9		0.0026		2.2		2.6					< 0.050		60.7	7.29				1.4			3.1		< 5.0	20.6		70	6.7	43		10.1		
11/17/2017		13			< 0.0090					7.1		21	15						11.3		0.35		< 0.00040		1.4		0.028					< 0.050		-31.2	6.35				1.2			9.5		< 5.0	2.9		56	9.8	< 4.0	1.6			
5/2/2018		17	0.14		< 0.0090		0.0062	< 2.0		7.9		18	23					< 0.0020	8.5		0.22		< 0.00040		1.4		0.031					< 0.050		34.3	7.18				0.61			5.1		< 5.0	21.8		99	6.7	4.8		3.5		< 0.020
8/29/2018		38			< 0.0090					14		24	19						4.9		1.7		< 0.00040		2.2		0.41					< 0.050		112.7	5.42				0.25			11		< 5.0	22.1		110	11	< 4.0		16.3		
11/15/2018		14			< 0.0090					7.3		33	19						12.2		0.33		< 0.00040		1.4		0.015					< 0.050		43.2	5.65				0.78			9.6		< 5.0	0.8		78	9.3	26		3.2		
5/15/2019		13	0.12		< 0.0090		0.0069	< 2.0		6.4		29	26					< 0.0020	10.0		0.20		< 0.00040		1.2		0.012					< 0.050		122.5	6.41				0.57			13		< 5.0	12.2		60	6.2	< 4.0		1.6		< 0.020
8/22/2019		< 10				< 9.0					6800	57	24						6.7			920		0.47		1200		60				< 0.050		135.1	6.36					830			11000	< 5.0	22.2		110	20	54	18.4			
11/18/2019		33				< 9.0					8400	21	22						14.8			270		< 0.40		1500		27				< 0.050		183.0	6.68					660			12000	< 5.0	3.8		69	7.4	60	0.8			
SW102C																																																					
10/12/1993					< 0.0007		0.0087		< 0.0017			31			< 0.0058		<						< 0.0008		3.36					< 0.079999						<					< 0.0081				<		98	9.7					
10/13/1993					< 0.0007		0.0087		< 0.0017			35			< 0.0058		<						< 0.0008		3.33					< 0.079999											< 0.0081				<		90	10					
8/18/1994					<		0.013		<			53			<		<						<		0.3					<											<				<		90	18					
12/5/1994																	<																														<								
SW102G																																																					
8/18/1994					<		0.013		<			53			<		<						0.006		3					<											<				18		97	18					

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																					
SW-11																																																					
5/5/1993		5	0.3	0.12	< 0.01		< 0.1	< 5	< 0.005	4		26	4		< 0.01	34	41	< 0.02			0.25		0.014		0.9		0.014			< 0.003	< 0.029999					6.6		0.02		6		17.1	< 0.01	40	11	< 3			< 0.01	0.02
12/1/1993				< 0.02				2		7		29	6			130	55			6.6	0.61		0.0016		1.8		0.039								5.92		< 0.1			3.1		11.3	-0.2		69	14.4	11	< 0			
3/15/1994				< 0.02				< 2		7.4		27	8.5			520	82			7.5	0.43		< 0.0008		1.6		0.13								9.3		< 0.1			4.3		5.5	2.2		61	7.6	< 3	< 0			
5/24/1994				< 0.02				2		6		34	6	< 2	< 0.0058	4800	26			6	0.739		0.0018		1.38		0.144								7.02	< 1	< 0.1			4.01		2.4	15.1		57	14.2	5	< 0			
8/16/1994																	<																			<								<						< 0			
11/30/1994				< 0.02				2		6.24		27	5.4			1700	67			6.2	1.06		< 0.0009		1.5		0.174								7.29		< 0.2			3.03		4.3	2.6		57	10.3	4	< 0			
3/2/1995				0.03				2		7.54		23	5.5			570	70			7.5	1.04		0.0084		1.76		0.135								8.27		< 0.2			4.8		3.2	1.8		50	6.7	21	< 0			
5/11/1995				0.032				< 2		7.13		32	6.5			440	70			7.1	0.758		< 0.0009		1.63		0.0591								7.92		< 0.2			4.42		2.4	12.7		60	10.4	< 3	< 0			
8/24/1995																	<																			<								<						< 0			
12/6/1995				< 0.02				< 2		6.61		23	7.4			<	78			6.6	0.213		< 0.0009		1.38		0.0148								7.43		< 0.2			3.69		7	0.1		72	8.7	< 3	< 0			
2/28/1996				< 0.02				< 2		3.71		17	5			40	62			3.7	0.186		< 0.0009		0.804		0.0082								7.23		< 0.2			3.04		5.1	2.9		32	7.1	< 3	< 0			
5/23/1996				< 0.02				< 2		5.87		48	4.8	< 0.4	< 0.0034	94	124			5.9	0.537		< 0.0009		1.15		0.0654								7.09	< 2	< 0.2			2.98		1.7	14.5		50	12.9	< 3	< 0			
SW11C																																																				
10/12/1993					< 0.0007		0.019		< 0.0017			27			< 0.0058		<						< 0.0008		4.07				0.093											< 0.0081			<			119	9.4					
10/14/1993					< 0.0007		0.0198		< 0.0017			24			< 0.0058		<						< 0.0008		4.34				< 0.079999							<					< 0.0081			<			117	8.8					
8/18/1994					<		0.008		<			47			<		<						<		2.4				<														<			82	17					
12/5/1994																	<																												<									
SW11G																																																				
8/18/1994					<		0.01		<			52			<		<						<		2.4				<							<					<			<			81	17					
SW12																																																				
8/19/1992								28					4.7	< 2	< 0.0058		151			14.6	12.5		0.0078													6.43					5.31			16.5				19.9				
SW-201																																																				
5/5/1993		20	0.2	0.12	< 0.01		< 0.1	< 5	< 0.005	6.7		26	6		< 0.01	12	78	< 0.02			0.28		< 0.005		1.4		0.062			< 0.003	< 0.029999					6.42		0.03	< 3		< 0.02	3		5	14	< 0.01	34	11	< 3			< 0.01	< 0.02
12/1/1993				< 0.02				3		8.7		45	6.7			84	79			8.5	0.29		< 0.0008		2.1		0.0098								6.45		< 0.1			3.5		13.5	0.2		87	14.5	< 3	< 0			
3/15/1994				0.022				< 2		9.2		22	6.9			870	100			9.3	0.47		< 0.0008		2.1		0.076								8.45		< 0.1			4.1		4.5	2.4		70	8.6	< 3	< 0			
5/24/1994				< 0.02				2		10.5		37	6	< 2	< 0.0058	8500	88			10.5	0.495		0.0009		2.07		0.104								7.38	< 1	< 0.1			4.11		1.6	16.3		63	14.1	10	< 0			
8/17/1994				0.046				2		12.1		49	4.1			9500	97			12.1	2.89		< 0.0009		2.59		0.44								6.93		< 0.2			4.08		4.7	15.3		87	14.8	10	< 0			
11/30/1994				< 0.02				< 2		9.55		22	6.3			1850	92			9.6	0.504		< 0.0009		2.02		0.0665								6.96		< 0.2			3.63		5.7	0.4		71	10.1	5	< 0			
3/2/1995				0.12				2		11.9		22	7.8			230	140			11.9	0.801		0.0068		2.51		0.138								8.13		< 0.2			4.96		5.8	0.1		65	7.1	33	< 0			
5/11/1995				< 0.02				< 2		11.4		32	6.5			240	101			11.4	0.74		< 0.0009		2.29		0.165								7.56		< 0.2			5.03		3.2	12.8		68	9.7	5	< 0			
8/24/1995																	<																			<								<						< 0			
12/6/1995				0.023				< 2		12.1		23	6.9			<	117			12.1	0.306		< 0.0009		2.35		0.0341								7.96		< 0.2			4.18		9.9	0.8		73	9.3	< 3	< 0			
2/28/1996				< 0.02				< 2		5.13		17	4.3			120	51			5.1	0.157		< 0.0009		1.05		0.0105								6.93		< 0.2			3		5.3	2.6		41	6.1	< 3	< 0			
5/23/1996				< 0.02				< 6		10.3		44	4.7	< 0.4	< 0.0034	340	90			10.3	0.574		< 0.0009		1.87		0.103								6.88	< 2	< 0.2			3.58		< 0.699999	15.5		75	11.9	11	< 0			
8/14/1996																	<																			<								<						< 0			
12/4/1996								< 2		6.46		35					59				0.277		< 0.001		1.24		0.0119								7.92			1.28		2.89			1.2		47	10	< 3	< 0			
5/5/1997		18		0.028	< 0.003		0.0037	< 2	< 0.0044	7.27		40	4.5	< 0.4	< 0.004		101	< 0.01		7.3	0.234		0.0011		1.44		0.0289			0.05	< 0.018999					7.69	< 2		0.85		3.06		< 0.699999	13.4		65	9.2	< 3	< 0		< 0.007	< 0.01
8/11/1997								< 2		18.5		16					112				0.594		< 0.001		3.97		0.0127								7.41			2.68		2.82			21.4		115	9	3	< 0			
12/3/1997								2		9.4		30					79				0.368		< 0.001		1.89		0.0251								7.06			1.19		3.78			2.6		109	11.2	16	< 0			
4/23/1998		22		< 0.02	< 0.003		0.0046	< 2	< 0.004	8.34		21	5.2	< 0.4	< 0.004		55	< 0.011		8.3	0.289		0.0022		1.64		0.0344			< 0.099999	< 0.018999					6.67			1.14		3.68	3	12.1		71	9	< 3	< 0		< 0.007	< 0.01
8/19/1998								4		18.7		48					112				12.8		< 0.001		3.71		1.46								6.83	< 1		2.29		6.24			19.2		126	14.5	33	< 0			
12/2/1998								< 2		15.4		28.1									0.3		< 0.005		1.8		0.027											1.2		4.7				76	11.9	3				
4/27/1999		26.6		0.11	< 0.01		0.0076	< 2	< 0.005	12.9		34	6.5	< 5	< 0.01		60	< 0.025			0.69		< 0.005		3.1		0.086			< 0.2	< 0.04					7.04	< 10		1.1		12.7	7.5	8.1		71	9.8	< 3			< 0.025	0.029
8/9/1999								< 2		15		18.6					130				0.58		< 0.005		2.7		0.085								7.12			2		3		18.6		99	9.6	< 3				
11/16/1999								8		7.7		35.5					66				0.34		< 0.005		1.6		0.022							6.87			0.98		3.8		3		55	14.2	< 3				
4/26/2000		14.1		< 0.02	< 0.01		< 0.005	< 2	< 0.005	6.4		< 10	4.2	< 5	< 0.01		52	< 0.025			0.2		< 0.005		1.2		0.019			< 0.2	< 0.04					7.13	< 10		0.96		3.3	5.8	9.1		73	8.9	< 3			< 0.025	< 0.02
8/21/2000								< 2		17		29.4					91				0.84		< 0.005		3.1		0.16								7.14			1.5		5.6			18.2		45	12.9	4				
5/7/2001		27		0.031	< 0.01		< 0.005	< 2	< 0.005	9.6		19.5	6.5	< 5	< 0.01		83.5	< 0.025			0.5		< 0.005		1.8		0.07			< 0.2	< 0.04					6.92	< 10		1.4		4.6	1.8	21.3		80	12	5.5			< 0.025	< 0.02
8/6/2001								7.1		25.8		36.9					179				1.2		< 0.005		4.5		1.5								7.28			3		7.1			28.7		96	13.2	18				
12/3/2001								< 2		11.6		29.3					116				0.27		< 0.005		2.6		0.017								7.19			2		6.3			4.7		124	13.2	5				
5/7/2002	29.4	29.4		< 0.02	< 0.01		0.0058	< 2	< 0.005	9.9		28.6	7	< 5	< 0.01		91	0.028			0.36		< 0.005		2		0.048			< 0.2	< 0.04					8.24	< 10		1.2		5	4.3	13.9		93	9.9	< 3			< 0.025	< 0.02
8/12/2002										22.9		53									4.2		< 0.005		4.1		1.1								6.27			3.6		6.3					136	19.9	4		6.5		
4/28/2003	< 5	< 5		< 0.02	< 0.01		0.0095	< 2	< 0.005	7.2		23.6	5.6	< 5	< 0.01		65	< 0.025			0.31		< 0.005		1.5		0.03			< 0.2	< 0.04		136			6.15			1.2		4.2	7.8	13.7		81	9.8	< 3		1.6	< 0.025	< 0.02
8/11/2003										16		110					113				2.3		< 0.005		3		0.84								6.75			1.7		5			21		138	23.9	< 3		5.2		
12/5/2003										10.3		< 10					95				0.57		< 0.005		2.2		0.079								6.85			1.2		5.2			0.7		64	8.6	< 3		4.2		
5/12/2004	19.2	19.2	< 0.2	0.14	< 0.01		< 0.005	< 2	< 0.005	9.9		41	6.4	< 5	< 0.01		108	< 0.025			0.52		< 0.005		2		0.099	< 0.0002	< 0.2	< 0.04		238			7.02	< 10		1.2		4.9	< 1	29.2		49	9	< 3		2.5	< 0.025	< 0.02
8/9/2004	41.8	41.8		0.23	< 0.01					16.9		40.8	5.7				136				1.7		< 0.005		3.3		0.36								7.12			1.5		5	< 1	19.9		101	14.4	5		8.1		
12/7/2004	30.7	30.7		0.089	< 0.01					9.2		30.6	6				120				0.48		< 0.005		1.9		0.043								7.85			1.3		4.1	< 1	1.2		33	11.4	5		1.6		
4/25/2005		15.8	0.33	0.042	< 0.01		< 0.005	< 2	< 0.005	5.1		36.3	6.9	< 5	< 0.01		49	< 0.025			0.29		< 0.005		1.1		0.015			< 0.2	< 0.04		17.8			6.31	< 10		0.91		3.3	< 1	8.4		66	9.4	15		2.4	< 0.025	< 0.02
8/12/2005		78.7		0.13	< 0.01					21.3		18.4	4.4				145				0.48		< 0.005		4		0.31								8.32			2		6.7	4.5	23		100	5.4	< 3		8		
5/15/2006		20.1	0.2	0.034	< 0.01		< 0.005	< 2		8.8		33.5	6.1				248	< 0.025			0.29		< 0.005		1.7		0.033			< 0.2			126			6.05			0.92		4	< 1	14.2		70	11.6	< 4		2.3		< 0.02
8/30/2006		34		0.13	< 0.01					12.5		35.2	4				92				0.64		< 0.005		2.2		0.048											1		4.1	< 1	21.1		62	13.8	< 4	4.7			
12/14/2006		20.1		0.033	< 0.01					8		26.3	3.6								0.31		< 0.005		1.5		0.037											0.87		4.2	< 1	2.3		51	5.3	14	9.5			
5/11/2007								< 2																																													
5/18/2007		14.1	0.29	< 0.02	< 0.01		< 0.005			6.7		29.5	5.4				66	< 0.025			0.38		< 0.005		1.4		0.034			< 0.2			182.1			6.89			0.74		3.6	< 1	7.5		33	9	< 4		2.3		< 0.02
8/16/2007		60.9		0.39	< 0.01					18.8		11.5	3.7				134				0.7		< 0.005		3.3		0.14								7.54			1.6		4.4	< 1	16.2		93	6.8	< 4		7		
12/5/2007		23.6		0.2	< 0.01					10.8		14.4	4.8				103				0.36		< 0.005		2.2		0.037								7.72			1.1		4	2.7	-1.2		116	7.6	< 4		1.9		
5/1/2008		12.2	< 0.2	< 0.02	< 0.01		< 0.005	< 2		6.2		20.7	4.4				57	< 0.025			0.23		< 0.005		1.2		0.017			< 0.2			-118			7.16			0.76		2.8	< 1	11.2		38	4.7	< 4		2.3		< 0.02
8/18/2008		65.2		0.25	< 0.01					13.5		38.4	4.8								0.83		< 0.005		2.3		0.049								6.32			1.2		4	< 1			91	11.9	< 4				
5/13/2009		16.8	< 0.200	< 0.020	< 0.0100		< 0.0050	< 2.0		7.7		< 10.0	7.6				810	< 0.0250	12.5		0.551		< 0.0050		1.57		0.0355	< 0.0002			< 0.050		128	6.47				1.04		6.9	< 1.00	16.8		73.0	10.1	< 4.0		3.2		< 0.0200
9/3/2009		49.6		0.227	< 0.0056					16.3		26.4	3.7				125		7.1		0.756		< 0.0050		3.06		0.0508				0.122			7.25				1.78		4.8	< 1.49	19.7		94.0	8.5	< 4.0		5.5		
11/13/2009		26.4		0.154	< 0.0056					10.7		34.7	5.7				88		13.1		0.387		< 0.0050		2.18		0.0416				< 0.050			7.05				1.37		4.0	2.08	3		73.0	8.7	< 4.0		2.9		
5/6/2010		31.5	0.448	0.076	< 0.0056		0.0067	< 2.0		11.3		32.5	3.8				97	< 0.0250	5.9		0.694		< 0.0050		2.30		0.0969	< 0.0002			< 0.050		159	6.36				1.11		3.7	< 1.49	14.2		46.0	8.5	< 4.0		6.3		< 0.0200
8/11/2010		79.5		0.184	< 0.0056					21.4		23.1	2.4				171		5.5		0.818		< 0.0050		3.80		0.699				< 0.050		148	6.94				2.38		4.0	1.60	23.9		101	7.5	< 4.0		7.6		
11/12/2010		21.9		< 0.020	< 0.0056					8.1		34.3	3.5				73		11.1		0.280		< 0.0050		1.71		0.0238				0.058		181.7	6.78				1.03		2.8	< 1.49	4.9		106	5.4	< 4.0		2.1		
5/11/2011		24.7	0.32	< 0.020	< 0.0056		0.0051	< 2.0		9.6		17.8	4.5				81	< 0.025	9.8		0.48		< 0.0050		1.9		0.083	< 0.00020			< 0.050		152	6.68				1.1		3.8	< 1.5	14.8		60.0	7.7	< 4.0		5.2		< 0.020
8/9/2011		80.9			< 0.0056					22.6		17.0	3.5				219		5.7		0.65		< 0.0050		4.2		0.26				0.091		86.6	6.60				2.6		5.1	< 1.5	23.6		95.0	5.0	< 4.0		6.5		
11/14/2011		25.2			< 0.0056					9.9		49.1	5.0				102		8.0		0.54		< 0.0050		2.0		0.040				< 0.050		86.0	6.96				1.7		3.6	2.3	9.0		108	10.7	< 4.0		5.5		
5/9/2012		22.7	0.26		< 0.0056		0.0044	< 2.0		8.0		21.9	5.5				92	< 0.025	4.3		0.36		< 0.0050		1.4		0.036	< 0.00020			0.042		81.9	6.91				0.92		3.6	< 1.5	12.7		63.0	7.7	< 4.0		5.5		< 0.020
8/16/2012		11.3			< 0.0056					12.1		29.6	3.3				95		6.4		1.9		0.0040		2.2		0.20				0.44		11.9	6.12				2.2		2.9	< 1.5	19.1		74.0	6.6	34.4		47.1		
11/9/2012		15.3			< 0.0056					7.3		27.3	6.1				79		9.8		0.43		< 0.0050		1.5		0.035				0.15		112.4	5.39				1.4		3.5	< 1.5	5.1		50.0	2.9	< 4.0		6.0		
4/12/2013		12.4	0.26	0.029	< 0.0056		0.0040	< 2.0		6.2		17.7	5.5				63	< 0.025	11.9		0.34		< 0.0050		1.3		0.039	< 0.00020			0.091		106.9	5.29				0.81		3.5	< 1.5	3.0		59.0	7.0	4.4		5.6		0.0036
8/14/2013		36.9			< 0.0056					9.8		33	5				84		7.6		0.7		< 0.005		1.7		0.069				0.06		324.1	6.27				0.99		3.2	< 1.5	20.9		95	12.7	< 4		6.2		
11/11/2013		22.1			0.0057					10		34.2	7.2				80		12.9		2.8		< 0.0050		2.5		1.4				0.061		123.4	6.87				1.3		4.4	< 1.5	4.3		77.0	10	< 4.0		6.0		
5/8/2014		27.1	0.21		< 0.0056		0.0053	< 2.0		9.8		33.4	8.2				87	0.0039	9.0		0.39		< 0.0050		1.8		0.066	< 0.00020			0.045		145	7.09				1.2		5.4	< 1.5	9.5		50.0	8.2	< 4.0		0		0.0044
8/20/2014		34.1		0.036	< 0.0056					11.8		29.8	4.3				72		5.1		0.68		< 0.0050		2.0		0.11				0.088		135.0	6.34				1.1		3.8	< 1.5	20.5		60.0	9.0	< 4.0		0		
11/4/2014		23.4			< 0.0056					9.0		32.5	5.6				66		7.4		0.49		< 0.0050		1.9		0.056				< 0.050		99.0	6.72				1.5		4.1	< 1.5	3.9		46.0	9.1	< 4.0		0		
4/28/2015		16.3	0.25		< 0.0056		0.0046	2.0		6.5		16.2	6.3				53	< 0.025	7.7		0.33		< 0.0050		1.2		0.037	< 0.00020			0.048		130	7.30				0.84		3.6	< 1.5	9.4		40.0	5.3	< 4.0		3.5		0.0082

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	coli/100ml	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-201																																																						
8/11/2015		58.4			< 0.0056					16.3		33.5	4.5				110		3.3		0.72		< 0.0050		3.0		0.16				0.080		115.0	6.48				2.2			5.1		< 1.5	18.4		80.0	8.5	4.8		5.6		
11/9/2015		33			< 0.0056					12		25	6.4				60		7.7		0.46		< 0.0050		2.5		0.071				< 0.050		113.0	6.47				1.7			4.8		< 1.5	7.3		76	10	< 4.0		4.1		
5/17/2016		32	0.11		< 0.0056		< 0.0050	< 2.0		10		14	7.3				96	< 0.025	10.0		0.47		< 0.0050		2.0		0.081		< 0.00020		< 0.050		89.7	7.78				0.84			5.1		2.2	15.9		45	7.8	< 4.0		2.9		< 0.020
8/18/2016		41			< 0.0056					16		30	2.6				126		7.0		1.0		< 0.00040		2.9		0.26				0.10		241.2	6.89				1.9			4.6		4.7	20.6		71	7.6	26		20.1		
11/9/2016		24			< 0.0090					13		38	7.9				111		10.6		0.40		< 0.00040		2.7		0.034				0.22		68.0	7.05				2.0			6.0		13	7.7		85	14	< 4.0		3.4		
5/25/2017		35	0.12		< 0.0090		0.0050	< 2.0		12		22	6.4					< 0.0020	9.3		0.50		< 0.00040		2.1		0.13		< 0.00020		< 0.050		45.7	7.08				0.84			5.1		< 5.0	16.7		72	8.2	8.0		1.9		< 0.020
8/17/2017		54			< 0.0090					16		21	2.8						7.0		1.2		0.00076		3.0		0.26				0.055		56.7	7.52				1.3			4.2		< 5.0	21.6		95	8.8	28		36.3		
11/17/2017		29			< 0.0090					10		29	8.3						10.0		0.55		< 0.00040		2.2		0.058				< 0.050		-38.6	6.85				1.4			5.5		< 5.0	4.0		60	13	< 4.0	1.9			
5/2/2018		26	0.19		< 0.0090		0.0055	< 2.0		8.8		29	13					< 0.0020	9.6		0.42		< 0.00040		1.8		0.085				< 0.050		112.8	6.90				0.92			6.6		< 5.0	17.2		52	7.5	< 4.0		4.7		< 0.020
8/29/2018		45			< 0.0090					16		25	14						4.9		0.60		< 0.00040		2.7		0.14				0.088		46.2	6.71				0.98			8.4		< 5.0	23.4		100	10	< 4.0		7.3		
11/15/2018		23			< 0.0090					9.0		34	9.1						14.0		0.34		< 0.00040		1.7		0.020				0.075		36.2	6.05				1.0			4.8		< 5.0	0.5		79	12	< 4.0		3.6		
5/15/2019		22	0.20		< 0.0090		< 0.0050	< 2.0		8.2		34	11					< 0.0020	10.0		0.35		< 0.00040		1.5		0.047				< 0.050		67.0	6.53				0.64			5.3		< 5.0	10.8		43	8.0	< 4.0		3.3		< 0.020
8/22/2019		< 10				< 9.0					5300	37	10						8.6			1400		0.88		1100		110				0.068		130.1	6.53					980			4600	< 5.0	21.7		85	12	18		11.2		
11/18/2019		37				< 9.0					12000	27	11						13.5			530		< 0.40		2300		76				< 0.050		-11.9	7.07					1200			6200	< 5.0	0.8		52	11	6.0		0.1		
SW-202																																																					
5/5/1993		78	< 0.01	0.07	< 0.01		< 0.1	< 5	< 0.005	16		17	6		< 0.01	6	123	< 0.02			0.33		0.007		4		0.094		< 0.003	< 0.029999						6.9		0.05	3		< 0.02	3		6	17.4	< 0.01	61	7	< 3			< 0.01	< 0.02
11/30/1993				0.17				5		16.5		17	11.6			3700	163			16.9	2.5		0.0028		4.3		0.059									6.79		0.18				4.1		9.3	3		130	7.9	15	< 0			
2/7/1994																	<																			<											<					< 0		
5/23/1994				< 0.02				< 2		29.5		20	10.1	< 2	< 0.0058	760	127			29.5	1.08		< 0.0008		6.45		1.65									7.13	< 1	< 0.1				4.93		5.5	19		111	6.9	82	< 0			
8/17/1994				0.6				2		34.2		31	3.6				260			34.2	15.9		0.0014		7.17		7.45									6.96		0.27				4.08		< 0.699999	14.2		147	7.7	51	< 0			
11/30/1994				0.038				2		46.4		13	37.9			1940	371			46.4	0.656		< 0.0009		7.64		0.353									7.29		< 0.2				6.68		16.8	2		195	4.1	9	< 0			
3/2/1995				0.02				< 2		69.5		14	53.4			96	406			69.5	0.16		< 0.0009		11.5		0.273									7.83		< 0.2				12.7		20.3	0.7		251	3.4	71	< 0			
5/11/1995				< 0.02				< 2		43.8		12	24.9			<	289			43.8	0.279		< 0.0009		6.61		0.268									7.98		< 0.2				8		9.2	11.5		183	4.2	3	< 0			
8/24/1995																	<																			<											<					< 0		
12/6/1995				< 0.02				< 2		62.5		11	45.1			<	356			62.5	0.056		< 0.0009		9.66		0.0436									6.86		< 0.2				10.9		29.1	0.8		279	4.1	< 3	< 0			
2/28/1996				0.063				2		24.6		< 7	15.3			26	214			24.6	0.289		< 0.0009		3.15		0.0521									7.81		< 0.2				4.5		10.1	2		102	2.5	69	< 0			
5/22/1996				< 0.02				2		32.7		18	14.8	< 0.4	< 0.0034	32	246			32.7	0.202		< 0.0009		4.25		0.0941									7.7	< 2	< 0.2				6.01		10.2	20.8		142	3.7	< 3	< 0			
SW202C																																																					
10/13/1993					< 0.0007		0.0083		< 0.0017			26			< 0.0058		<						< 0.0008		4.11				< 0.079999														< 0.0081			<		108	6.7				
10/14/1993					< 0.0007		0.0098		< 0.0017			15			< 0.0058		<						< 0.0008		4.2				< 0.079999							<							< 0.0081			<		93	4.4				
8/18/1994					0.012		0.02		<			26			<		<						<		6.3				<														<			<		130	8				
SW202G																																																					
8/18/1994					0.014		0.02		<			25			<		<						<		6.5				<							<							<			17		130	8.4				
SW-203																																																					
5/24/1994				< 0.02				2		24.9		10	7	< 2	< 0.0058	8100	199			24.9	0.185		< 0.0008		5.16		0.135									7.41	< 1	< 0.1				5.88		5.6	13		118	5	4	< 0			
8/24/1994		49	0.212	0.084	0.0051		0.0051	< 2	< 0.003	22.4		19	14.7	< 0.6	< 0.003	7200	196	< 0.007		22.4	0.812		< 0.0009		4.95		0.999		< 0.049999	< 0.009						7.28	< 2	< 0.2	2.45		< 0.01	7		9.5	15.1	< 0.001	131	4.7	11	< 0		< 0.003	0.0289
2/28/1996				< 0.02				< 2		12.7		9	8.1			44	102			12.7	0.261		< 0.0009		1.96		0.0572									6.9		< 0.2				3.55		7.6	3.1		60	4.2	4	< 0			
5/22/1996				< 0.02				< 2		29.9		25	11.2	< 0.4	< 0.0034	72	89			29.9	0.225		< 0.0009		4.3		0.0911									7.51	< 3	< 0.2				6.53		9.4	18.5		127	4	5	< 0			
8/14/1996								< 2		53.7		10					360				2.16		< 0.001		9.08		1.1									7.52			0.71			14.5			15.9		236	3.3	73	< 0			
12/4/1996								< 2		15.6		16					121				0.756		0.0026		2.59		0.0239									8.75			2.34			3.4			3		65	2.7	3	< 0			
5/5/1997		22		< 0.02	0.0079		0.0058	< 2	< 0.0044	31.3		< 7	33.6	< 0.4	< 0.004		230	< 0.01		31.3	0.137		< 0.001		5.74		0.0407		< 0.049999	< 0.018999						7.56	< 3		5.68			12.1	8	17		161	3.5	27	< 0		< 0.007	< 0.01
8/11/1997								< 2		87.7		< 7					871				1.25		< 0.001		13.5		0.781									7.61			20.6			30.3			21.1		569	6	10	< 0			
12/3/1997								< 2		52.9		16					340				1.49		< 0.001		8.62		0.356									7.27			13.1			16.5			4.9		297	3.1	6	< 0			
3/12/1998		113		0.05	< 0.003		0.0122	< 2	< 0.004	42.2		12	18.2	< 0.4	< 0.004		202	0.0114		42.2	0.283		0.0016		7.92		0.177		0.17	< 0.018999						7.43	< 1		3.61			6.57	17.7	0.1	181	3.1	3			< 0.007	0.0178
4/23/1998		82		< 0.02	0.003		0.0125	< 2	< 0.004	36.1		< 7	13.9	< 0.4	< 0.004		204	< 0.011		36.1	0.93		< 0.001		5.27		0.29		< 0.099999	< 0.018999						6.35			5.36			6.33	10.1	11.8	134	3	< 3	< 0		< 0.007	< 0.01
8/20/1998								< 2		108		21					768				0.665		0.0023		19		1.05									7.56	< 1		18.7			29			16.2		549	5.4	7	< 0			
12/2/1998								< 2		31		< 10									2.9		< 0.005		8		0.59												3.4			8.3					83	2.9	< 3				
4/27/1999		175		0.072	< 0.01		0.025	< 2	< 0.005	59.4		10.7	29.5	< 5	< 0.01		448	< 0.025			0.38		< 0.005		12.9		0.2		< 0.2	< 0.04						7.21	< 10		9.7			44.6	11.5	9.8	254	3.7	8			< 0.025	0.037
11/16/1999								3.6		33.1		< 10					172				0.14		< 0.005		5.5		0.079							7.22				3.4			4.4		3.3	123	3.2	9				
4/27/2000		77		< 0.02	< 0.01		0.005	< 2	< 0.005	28.4		< 10	9.2	< 5	< 0.01		179	< 0.025			0.12		< 0.005		4.6		0.027		< 0.2	< 0.04						7.67	< 10		3.1			4.2	11.5	8.9	77	2.6	< 3			< 0.025	< 0.02
8/21/2000								< 2		50.6		< 10					386				0.18		< 0.005		7.3		0.22									7.26			6			9.3		19.8	149	3.2	87				
5/7/2001		12.6		0.025	< 0.01		0.0086	< 2	< 0.005	6.1		30	7.4	< 5	< 0.01		63	< 0.025			0.9		< 0.005		1.4		0.075		< 0.2	< 0.04						7.32	< 10		0.79			4.3	1.3	19.3	77	12.8	10			< 0.025	< 0.02
8/6/2001								< 2		71.5		< 10					417				0.58		< 0.005		10.2		1.6									7.13			7.8			9.9		24.9	241	5.5	28				
12/3/2001								< 2		28.9		< 10					188				6.2		< 0.005		5.1		2.5									6.43			3.3			3.6		5.6	122	2.7	193				
5/7/2002	80.3	80.3		< 0.02	< 0.01		0.0054	< 2	< 0.005	25.4		< 10	5.6	< 5	< 0.01		181	< 0.025			0.18		< 0.005		3.8		0.046		< 0.2	< 0.04						7.84	< 10		2.6			4.4	12.5	19.2	114	2.7	< 3			< 0.025	< 0.02
4/28/2003	55.6	55.6		< 0.02	< 0.01		0.006	< 2	< 0.005	21.1		< 10	3.2	< 5	< 0.01		154	< 0.025			0.41		< 0.005		3.5		0.053		< 0.2	< 0.04		137				7.15			2.9			6.6	11.3	19.1	115	1.2	7		3.5	< 0.025	< 0.02
8/11/2003										30.7		< 10					210				0.37		< 0.005		5		0.69									7.28			3.4			5.8		32.3	154	4.8	< 3		3		
12/5/2003										24.3		< 10					148				0.26		< 0.005		4.4		0.07									6.1			2.8			6.2		0.2	99	1.9	9		4.7		
5/12/2004	81.3	81.3	< 0.2	0.11	< 0.01		0.0055	< 2	< 0.005	25.4		16	2.7	< 5	< 0.01		195	< 0.025			0.13		< 0.005		4.6		0.061	< 0.0002	< 0.2	< 0.04		285				7.43	< 10		2.6			7.1	8.7	22.3	92	1.2	3		2.8	< 0.025	< 0.02
8/9/2004	93.4	93.4		0.15	< 0.01					28.1		< 10	4.4				227				0.2		< 0.005		5.2		0.19									7.39			3			7.7	12.2	20.1	121	2.1	< 3		4.1		
12/7/2004	45	45		0.07	< 0.01					12.5		< 10	3				110				0.16		< 0.005		2.2		0.036									7.16			1.5			3	4.8	2.1	70	1.4	6		0.9		
4/25/2005		16.2	0.82	0.042	< 0.01		0.0079	< 2	< 0.005	5.7		< 10	2.2	< 5	< 0.01		48	< 0.025			0.84		< 0.005		1.2		0.11		< 0.2	< 0.04		13.2				7	< 10		1			2	1.8	11.1	49	1.5	12		12.1	< 0.025	< 0.02
8/12/2005		77.8		0.13	< 0.01					26		< 10	4.4				199				0.73		< 0.005		5		0.38									7.84			2.5			7.4	17.7	21.6	114	1.5	92		2.2		
5/15/2006		33.7	< 0.2	0.072	< 0.01		< 0.005	< 2		11.7		< 10	1.5				255	< 0.025			0.21		< 0.005		2.2		0.046		< 0.2			100.2				6.42			1.4			2.5	4.4	17.1	99	1.4	< 4		3.4		< 0.02
8/30/2006		81.6		0.14	< 0.01					23.6		< 10	1.6				163				0.95		< 0.005		4.3		0.37												2.6			5.2	6.3	20.5	105	2.5	< 4	6.1			
12/14/2006		66.2		< 0.02	< 0.01					21.5		< 10	2.7								0.22		< 0.005		3.7		0.096												2.2			5.3	10.6	8.7	32	1.2	< 4	10.5			
5/11/2007								< 2																																															
5/18/2007		39	0.24	0.053	< 0.01		< 0.005			11.5		< 10	2.7				96	< 0.025			0.28		< 0.005		2.1		0.065		< 0.2			141.8				6.61			1.6			2.7	6.8	8.6	33	2.1	< 4		3.9		< 0.02
8/16/2007		72.2		0.16	< 0.01					19.6		< 10	1.6				137				0.24		< 0.005		3.5		0.19									7.18			2.2			4.2	< 1	19.6	86	< 1	< 4		4.4		
12/5/2007		59		0.17	< 0.01					19.6		< 10	1.9				132				0.33		< 0.005		3.8		0.063									7.72			2.1			5	3	4.7	110	1.3	< 4		5.5		
5/1/2008		22	< 0.2	0.021	< 0.01		< 0.005	< 2		7.1		< 10	1.6				57	< 0.025			0.19		< 0.005		1.2		0.029		< 0.2			-84.8				6.48			1			1.4	< 1	12	40	< 1	< 4		2.3		< 0.02
8/18/2008		99.9		0.21	< 0.01					20.5		< 10	1.6								0.24		< 0.005		3.6		0.3									6.47			2.2			4.2	< 1		123	1.8	< 4				
12/16/2008		22.5		0.07	< 0.01					9.2		< 10	1								0.4		< 0.005		1.9		0.1												2.1			1.3			46	< 1	11.2				
5/13/2009		56.7	< 0.200	< 0.020	< 0.0100		< 0.0050	< 2.0		16.8		< 10.0	2.5				120	< 0.0250	10.1		0.161		< 0.0050		3.13		0.0366	< 0.0002			0.061		179	6.79				1.72			3.8		< 1.00	17.1		90.0	1.8	< 4.0		2.6		< 0.0200
9/3/2009		88.5		0.139	0.0059					23.9		< 10.0	3.1				186		6.4		0.909		< 0.0050		4.89		0.450				0.079			7.42				3.01			6.5		< 1.49	20.3		119	1.7	< 4.0		6.7		
11/13/2009		79.2		0.145	< 0.0056					18.8		< 10.0	2.2				141		11.2		0.100		< 0.0050		3.88		0.0448				< 0.050			6.95				2.03			4.5		3.23	5.9		< 5.0	1.5	< 4.0		4.5		
5/6/2010		58.8	0.203	0.045	< 0.0056		< 0.0050	< 2.0		17.5		10.8	2.0				145	< 0.0250	4		0.220		< 0.0050		3.40		0.0982	< 0.0002			< 0.050		187	6.74				1.64			3.6		< 1.49	14.5		55.0	3.2	< 4.0		3.5		< 0.0200
8/11/2010		83.0		0.129	< 0.0056					23.9		< 10.0	2.1				202		10.9		0.551		< 0.0050		4.58		0.508				< 0.050		164	7.83				2.55			5.2		1.99	23.5		109	1.9	10.4		9.2		
11/12/2010		44.9		< 0.020	< 0.0056					15.0		< 10.0	2.8				125		10.5		0.125		< 0.0050		3.11		0.0722				0.245		190.3	7.27				1.89			2.8		1.53	7.3		116	< 1.0	< 4.0		2.1		
5/11/2011		84.4	0.20	< 0.020	< 0.0056		< 0.0050	< 2.0		23.0		< 10.0	2.1				179	< 0.025	9.5		0.20		< 0.0050		4.6		0.069	< 0.00020			< 0.050		190	6.89				2.2			5.4		< 1.5	14.9		86.0	1.9	< 4.0		4.5		< 0.020
8/9/2011		109			0.0070					29.5		< 10.0	2.8				278		6.9		0.90		< 0.0050		5.7		0.85				< 0.050		53.6	7.44				3.3			6.9		< 1.5	20.7		136	1.5	15.2		4.8		
11/14/2011		90.7			< 0.0056					22.0		< 10.0	5.0				200		7.2		0.24		< 0.0050		4.5		0.092				< 0.050		90.0	7.38				2.8			5.0		2.4	11.0		124	2.6	8.8		4.4		
5/9/2012		28.2	0.89		< 0.0056		0.0073	< 2.0		10.7		5.2	3.5				108	< 0.025	3.5		0.84		< 0.0050		2.2		0.045	< 0.00020			0.33		91.8	6.92				1.5			2.0		1.5	12.4		63.0	1.9	< 4.0		24.3		< 0.020
8/16/2012		58.9			< 0.0056					19.4		28.1	3.2				148		6.3		1.4		< 0.0050		3.9		0.77				0.17		1.7	6.72				2.9			3.7		< 1.5	19.0		101	4.0	27.6		18.1		
11/9/2012		26.6			< 0.0056					9.9		< 10.0	4.4				93		9.3		0.35		< 0.0050		2.1		0.085				0.13		95.1	5.84				1.6			2.4		2.8	6.4		29.0	< 1.0	< 4.0		7.8		
4/12/2013		88.7	0.16	0.019	0.0084		0.0039	< 2.0		24.1		5.4	2.6				184	< 0.025	10.5		0.22		0.0035		5.3		0.068	< 0.00020			0.11		85.8	5.61				2.2			5.7		< 1.5	4.6		110	1.8	< 4.0		3.4		< 0.020
8/14/2013		84			< 0.0056					22.1		10.3	2.4				176		5.4		0.38		< 0.005		4.1		0.29				0.056		394.7	6.43				2.4			4		< 1.5	20.7		119	3.1	34.8		6.2		
11/11/2013		100			0.012					29.0		9.3	3.0				206		12.0		2.9		< 0.0050		6.5		0.92				0.14		138.1	7.30				3.3			7.0		< 1.5	5.5		133	2.1	5.2		9.4		

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																							
SW-203																																																							
5/8/2014		66.0	0.074		< 0.0056		0.0031	< 2.0		20.4		10.7	2.8				153	0.0034	7.9		0.10		< 0.0050		3.9		0.032		< 0.00020			0.053		11.8	7.78					2.3			5.0		< 1.5	16.3		88.0	2.2	< 4.0		0		< 0.020
8/14/2014		20.9		< 0.020	< 0.0056					7.1		< 10.0	0.86				46		6.5		0.83		< 0.0050		1.2		0.27					0.042		119.0	6.54					1.1			1.0		< 1.5	18.0		47.0	2.6	6.8		9.2		
11/4/2014		50.4			< 0.0056					16.8		10.6	1.6				108		6.9		0.12		< 0.0050		3.5		0.044					0.14		79.0	6.97					2.1			3.5		< 1.5	6.6		99.0	1.1	< 4.0		0		
4/28/2015		53.4	0.089		< 0.0056		0.0028	2.3		16.6		10.6	2.3				105	< 0.025	8.7		0.097		< 0.0050		2.8		0.031		< 0.00020			0.31		142	7.37					1.9			3.1		< 1.5	9.8		54.0	1.9	< 4.0		0		< 0.020
8/11/2015		106			< 0.0056					28.5		10.1	2.8				189		6.2		0.15		< 0.0050		5.4		0.21					0.054		68.0	7.16					3.0			6.8		< 1.5	15.2		130	2.8	11.2		14.3		
11/9/2015		76			< 0.0056					23		< 10	2.1				119		7.7		0.072		< 0.0050		4.3		0.043					0.085		58.0	6.97					2.5			4.6		2.1	9.9		110	1.7	< 4.0		3.9		
5/17/2016		82	< 0.060		< 0.0056		< 0.0050	< 2.0		22		< 10	1.3				178	< 0.025	8.4		0.092		< 0.0050		4.2		0.060		< 0.00020			< 0.050		88.8	7.52					2.3			4.7		2.3	16.4		72	1.3	< 4.0		2.8		< 0.020
8/18/2016		110			0.010					30		< 10	2.1				241		7.6		1.8		0.0015		6.1		0.64					0.063		31.3	7.68					3.4			7.5		9.2	19.2		120	1.7	34		14.9		
11/9/2016		39			< 0.0090					15		< 10	3.0				124		9.7		0.11		< 0.00040		3.0		0.032					2.1		2.2	7.31					2.0			3.3		6.6	9.0		76	2.3	8.8		2.8		
5/25/2017		78	< 0.080		< 0.0090		< 0.0050	< 2.0		23		< 10	2.0					< 0.0020	9.4		0.085		< 0.00040		4.0		0.064		< 0.00020			< 0.050		80.0	7.13					1.9			4.4		< 5.0	16.6		94	1.9	< 4.0		3.7		< 0.020
8/17/2017		92			< 0.0090					26		< 10	1.8						6.6		0.26		< 0.00040		4.6		0.18					< 0.050		64.4	7.58					2.6			6.1		< 5.0	19.3		150	1.8	4.4		5.2		
11/17/2017		69			< 0.0090					19		< 10	2.5						8.9		0.087		< 0.00040		3.7		0.038					0.084		-72.2	7.37					2.5			4.3		< 5.0	5.2		83	2.4	< 4.0	0.9			
5/2/2018		71	0.12		< 0.0090		< 0.0050	< 2.0		19		< 10	1.5					< 0.0020	7.2		0.13		< 0.00040		3.1		0.047					< 0.050		32.5	7.23					2.3			3.6		< 5.0	24.2		78	2.0	25		3.3		< 0.020
8/29/2018		89			0.0090					25		< 10	1.7						6.9		0.90		0.0011		4.5		0.44					< 0.050		94.2	6.02					2.7			5.0		< 5.0	21.4		120	1.6	83		11.1		
11/15/2018		54			< 0.0090					17		< 10	1.3						13.2		0.073		< 0.00040		2.4		0.021					0.19		24.1	6.33					1.8			2.3		< 5.0	1.1		58	2.1	< 4.0	2.0			
5/15/2019		50	0.13		< 0.0090		< 0.0050	< 2.0		16		< 10	2.4					< 0.0020	10.0		0.13		< 0.00040		2.4		0.030					< 0.050		85.4	6.75					1.8			2.3		< 5.0	12.0		48	2.0	4.8		2.2		< 0.020
8/22/2019		34				< 9.0					11000	< 10	1.1						10.0			360		< 0.40		1400		190			0.052		193.1	7.03						2000			1500	< 5.0	20.4			74	5.2	< 4.0	2.3			
11/18/2019		82				< 9.0					23000	< 10	3.0						12.9			930		0.47		4600		220			0.097		-69.2	7.15						2400			4800	< 5.0	4.4			64	2.1	10	5.8			
SW-204																																																						
5/24/1994				< 0.02				2		6.61		32	6.1	< 2	< 0.0058	5600	65			6.6	0.628		0.0009		1.47		0.0837												7.32	< 1	0.1																
8/24/1994		22	0.274	0.068	0.003		0.0088	< 2	< 0.003	9.8		49	5.4	< 0.6	< 0.003	10700	77	< 0.007		9.8	1.53		< 0.0009		1.97		0.212			< 0.049999	< 0.009							6.6	< 2	< 0.2	1.09		< 0.01	3.87		1.4	14.5	< 0.001	67	17	< 3	< 0		< 0.003	0.0359
2/28/1996				< 0.02				< 2		5.52		14	4.6			280	55			5.5	0.165		< 0.0009		1.11		0.0207												7.24		< 0.2				3.09		5.7	3.3		41	6.3	< 3	< 0			
5/22/1996				< 0.02				< 2		10.8		38	4.3	< 0.4	< 0.0034	<	218			10.8	0.427		< 0.0009		2.01		0.0593												7.53	< 2	0.41				3.67		< 0.699999	18.7		73	12.5	< 3	< 0			
8/13/1996																	<																						<							<					< 0			
12/4/1996								< 2		4.78		48					45				0.38		< 0.001		1.02		0.0182												7.93			0.76			2.49			0.7		54	13	< 3	< 0			
5/5/1997		18		< 0.02	< 0.003		0.0063	< 2	< 0.0044	5.27		29	4.9	< 0.4	0.0105		60	< 0.01		5.3	0.411		0.0019		1.18		0.0349			< 0.049999	< 0.018999							7.75	< 2		0.47			3.23		2.7	12.3		59	9.2	< 3	< 0		< 0.007	0.015
8/11/1997																	<																						<												< 0			
12/3/1997								< 2		7.7		28					64				0.532		< 0.001		1.67		0.0397												7.11			0.8			3.36			4.4		91	10.6	11	< 0			
4/23/1998		14		< 0.02	< 0.003		0.0061	< 2	< 0.004	6.98		74	5.7	< 0.4	< 0.004		50	< 0.011		7	0.338		0.0022		1.37		0.0216			< 0.099999	< 0.018999							6.55			0.77			3.34		4.5	10.8		69	9.3	< 3	< 0		< 0.007	< 0.01
8/19/1998																	<																						<												< 0			
12/2/1998								< 2		8.6		33.5									0.33		< 0.005		1.4		0.011														0.61			4.3					52	13.4	3				
4/27/1999		11.4		0.073	< 0.01		0.012	< 2	< 0.005	25.2		21.9	6.7	< 5	< 0.01		60	< 0.025			0.46		0.021		1.9		0.049			< 0.2	< 0.04							7.02	< 10		0.68			10.5		7.7	6.7		53	10.3	< 3			< 0.025	0.24
11/16/1999								< 2		5.6		27.7					47				0.37		< 0.005		1.3		0.025								6.78						< 0.79			3.7			2.9		48	13.3	< 3				
4/26/2000		< 5		< 0.02	< 0.01		0.0056	< 2	< 0.005	3.9		13.1	4.5	< 5	< 0.01		45	< 0.025			0.26		< 0.005		0.88		0.016			< 0.2	< 0.04							7.66	< 10		0.56			3.4		5.2	9.3		75	9.4	< 3			< 0.025	< 0.02
8/21/2000								< 2		12.1		34.3					86				0.93		< 0.005		2.3		0.1												7.05			0.97			4.7			16.4		40	15.4	23				
5/7/2001		29.3		0.028	< 0.01		< 0.005	< 2	< 0.005	9.9		19.8	6.8	< 5	< 0.01		82	< 0.025			2.5		< 0.005		1.8		0.066			< 0.2	< 0.04							7	< 10		1.3			4.1		1.8			87	12	8.5			< 0.025	< 0.02
12/3/2001								< 2		11.3		31.6					108				0.3		< 0.005		2.5		0.019												5.91			1.8			6			5		133	14.7	3				
5/7/2002	19.2	19.2		< 0.02	< 0.01		0.0077	< 2	< 0.005	7.6		30.6	8.4	< 5	< 0.01		74	< 0.025			0.44		< 0.005		1.7		0.038			< 0.2	< 0.04							8.49	< 10		0.8			5.2		6.8	11.5		80	10.2	< 3			< 0.025	< 0.02
4/28/2003	< 5	< 5		< 0.02	< 0.01		0.012	< 2	< 0.005	6.4		27	9.2	< 5	< 0.01		109	< 0.025			0.28		< 0.005		1.5		0.019			< 0.2	< 0.04		188					6.27			0.74			5.3		8.2	16.1		73	8.6	< 3		1	< 0.025	< 0.02
8/11/2003										11.5		18.9					90				1.4		< 0.005		2.3		0.19												6.78			0.99			5.9			21.8		103	21.3	< 3		5.5		
12/5/2003										7.3		14.4					63				0.41		< 0.005		1.6		0.043												6.84			0.76			4.4			0.3		64	8.5	< 3		4.1		
5/12/2004	10.2	10.2	0.2	< 0.02	< 0.01		0.0061	< 2	< 0.005	7.3		41.7	8.6	< 5	< 0.01		77	< 0.025			0.44		< 0.005		1.7		0.046		< 0.0002	< 0.2	< 0.04		185					7.01	< 10		0.74			4.9		< 1	23.1		49	8.2	8		2.5	< 0.025	< 0.02
8/9/2004	21.7	21.7		0.18	< 0.01					13.8		30.7	8.5				128				1.2		< 0.005		2.7		0.12												7.51			1.2			5.2		< 1	19.2		83	14.9	5		10		
12/7/2004	16.6	16.6		0.096	< 0.01					7.1		29.6	8.1				150				0.83		< 0.005		1.8		0.066												8.32			0.8			4.3		< 1	1.7		48	12.7	8		1.6		
4/25/2005		< 5	0.48	0.021	< 0.01		0.006	< 2	< 0.005	3.2		25.2	5.9	< 5	< 0.01		41	< 0.025			0.32		< 0.005		0.82		0.015			< 0.2	< 0.04		14.4					6.94	< 10		0.57			3.9		< 1	8.7		77	10.8	< 3		4.1	< 0.025	< 0.02
5/15/2006		12.1	0.31	< 0.02	< 0.01		0.0064	< 2		5.9		20.2	7				252	< 0.025			0.32		< 0.005		1.4		0.026			< 0.2			118					6.35			0.68			4		< 1	13.7		58	10.7	< 4		2.7		< 0.02
8/30/2006		17.5		0.12	< 0.01					10.3		53.8	6.9				97				1.8		< 0.005		2.2		0.096															0.95			4.2		< 1	20.5		78	20.5	< 4	7.4			
12/14/2006		11.9		< 0.02	< 0.01					5.6		28.3	4.3								0.5		< 0.005		1.4		0.052															0.56			3.8		< 1	3.8		92	5.6	5	10.5			
5/11/2007								< 2																																																
5/18/2007		< 5	0.4	< 0.02	< 0.01		0.0062			4.5		32	5.4				50	< 0.025			0.45		< 0.005		1.2		0.028			< 0.2			124.8					7.62			0.49			3.2		< 1	7.2		64	10.2	< 4		2.8		< 0.02
8/16/2007		40.7		0.18	< 0.01					15.5		31.1	8.4				120				1		< 0.005		3		0.07												7.43			1.3			4.8		< 1	16.5		90	10.3	9.6		8.4		
12/5/2007		8.1		0.16	< 0.01					6.5		10.5	6.8				81				0.41		< 0.005		1.7		0.03												8.02			0.54			4.2		< 1	-1.2		88	8.2	< 4		2.1		
5/1/2008		< 5	0.28	0.12	< 0.01		0.0052	< 2		3.6		13.8	4.4				47	< 0.025			0.28		< 0.005		0.85		0.016			< 0.2			-132					7.73			0.41			2.6		< 1	11.9		46	5	< 4		2.1		< 0.02
8/18/2008		30		0.23	< 0.01					8.8		52.3	7.3								1.2		< 0.005		1.8		0.064												6.48			0.84			4		< 1			111	14	< 4				
12/16/2008		< 5		0.077	< 0.01					3.8		10.3	3.8								0.38		< 0.005		1		0.023															0.53			2.8		1			62	3	< 4				
5/13/2009		< 5.0	0.323	0.038	< 0.0100		0.0061	< 2.0		6.0		18.3	5.1				55	< 0.0250	10.2		0.744		< 0.0050		1.46		0.0415		< 0.0002			< 0.050		88	6.29					0.784			3.8		< 1.00	14.6		79.0	11.5	< 4.0		2.9		< 0.0200
9/3/2009		36.3		0.185	< 0.0056					12.9		29.8	6.5				107		7.6		1.62		< 0.0050		2.76		0.0914					0.175			6.75					1.35			4.6		< 1.49	17		90.0	11.8	< 4.0		9.1		
11/13/2009		14.7		0.133	< 0.0056					6.9		34.7	7.5				66		12.5		0.635		< 0.0050		1.79		0.0380					< 0.050			6.97					0.715			3.7		2.14	2.7		50.0	10.1	< 4.0		2.8		
5/6/2010		12.5	0.763	0.072	< 0.0056		0.0109	2.1		8.2		36.8	5.1				82	< 0.0250	5.3		1.09		< 0.0050		2.15		0.0810		< 0.0002			< 0.050		170	6.69					1.09			3.4		< 1.49	14.1		59.0	10.4	4.0		13		< 0.0200
11/12/2010		10.9		< 0.020	< 0.0056					5.3		36.6	4.1				54		11.6		0.404		< 0.0050		1.30		0.0303					< 0.050		185.2	6.39					0.638			2.7		< 1.49	5		51.0	7.8	< 4.0		1.6		
5/11/2011		15.0	0.26	0.023	< 0.0056		0.0061	< 2.0		6.0		< 10.0	4.7				58	< 0.025	10.4		0.42		< 0.0050		1.4		0.032		< 0.00020			< 0.050		155	6.15					0.85			3.2		< 1.5	13.6		37.0	7.6	< 4.0		3.7		< 0.020
8/9/2011		57.5			< 0.0056					17.4		16.0	6.9				175		6.2		1.0		< 0.0050		3.1		0.15					0.20		90.3	6.60					3.0			4.8		< 1.5	21.9		85.0	4.2	< 4.0		10.8		
11/14/2011		10.8			< 0.0056					6.7		34.2	6.1				74		9.4		0.80		< 0.0050		1.7		0.049					< 0.050		94.0	6.52					1.0			3.5		2.2	8.8		99.0	12.2	< 4.0		4.7		
5/9/2012		12.2	0.38		< 0.0056		0.0075	< 2.0		5.2		21.6	5.5				78	< 0.025	4.4		0.46		< 0.0050		1.1		0.036		< 0.00020			0.17		79.6	7.06					0.93			3.1		< 1.5	11.4		53.0	6.3	< 4.0		5.9		0.011
8/16/2012		6.8			< 0.0056					9.6		37.9	4.2				83		6.4		3.3		0.0034		2.2		0.36					0.43		19.2	5.90					2.3			3.3		< 1.5	19.1		77.0	12.5	71.6		100.8		
11/9/2012		4.1			< 0.0056					5.0		18.0	6.4				59		10.1		0.58		< 0.0050		1.3		0.049					0.30		159.7	4.65					0.81			3.3		< 1.5	5.3		49.0	3.8	< 4.0		9.4		
4/12/2013		< 10.0	0.32	0.029	< 0.0056		0.0055	< 2.0		4.3		25.6	5.3				5.0	< 0.025	12.5		0.36		< 0.0050		1.1		0.029		< 0.00020			0.15		127.3	5.28					0.62			3.4		< 1.5	2.8		55.0	8.6	< 4.0		7.2		0.0064
8/14/2013		16.5			< 0.0056					6.1		40.4	4.8				58		9.5		0.8		< 0.005		1.2		0.04					0.065		203.7	5.78					1			2.7		< 1.5	20.9		64	12.6	< 4		7.4		
11/11/2013		22.9			< 0.0056					7.7		32.0	7.1				71		12.1		0.61		< 0.0050		1.9		0.038					0.073		137.4	6.45					0.88			3.8		< 1.5	4.9		62.0	10.8	< 4.0		4.5		
5/8/2014		10.8	0.29		< 0.0056		0.0067	< 2.0		5.8		35.3	7.6				63	0.0037	17.9		0.43		< 0.0050		1.3		0.037		< 0.00020			0.072		206	6.84					1.2			4.8		< 1.5	7.6		53.0	7.1	< 4.0		0		0.0065
8/14/2014		< 10.0		< 0.020	< 0.0056					4.2		48.3	3.6				31		7.1		0.82		< 0.0050		0.86		0.049					0.045		132.0	6.24					0.60			2.4		< 1.5	15.8		66.0	15.7	4.0		4.9		
11/4/2014		11.3			< 0.0056					6.4		36.1	6.6				50		8.0		0.81		< 0.0050		1.6		0.053					< 0.050		79.0	6.69					0.93			4.2		< 1.5	4.3		77.0	12.6	< 4.0		1.2		
4/28/2015		5.0	0.42		< 0.0056		0.0076	< 2.0		4.7		21.2	5.9				42	< 0.025	9.2		0.48		< 0.0050		1.1		0.029		< 0.00020			0.071		128	7.32					0.83			3.3		< 1.5	8.8		25.0	4.8	< 4.0		6.3		0.026
8/10/2015		28.3			< 0.0056					12.9		30.9	7.0				96		6.3		1.3		< 0.0050		2.4		0.12					0.20		92.0	7.69					1.8			4.5		< 1.5	17.6		59.0	6.8	< 4.0		14.2		
11/9/2015		10			< 0.0056					7.7		35	6.4				46		7.5		0.85		< 0.0050		1.9		0.049					< 0.050		92.0	6.70					0.93			4.0		< 1.5	7.7		70	14	< 4.0		3.7		
5/17/2016		16	0.23		< 0.0056		0.0058	< 2.0		7.1		< 10	7.2				73	< 0.025	10.1		0.68		< 0.0050		1.8		0.059		< 0.00020			< 0.050		110.1	7.46					0.87			4.5		1.6	15.6		38	7.9	< 4.0		4.7		< 0.020
8/18/2016		29			< 0.0056					13		13	4.0				111		7.2		0.84		< 0.00040		2.3		0.087					0.19		238.5	7.11					1.7			3.6		4.8	19.2		55	4.1	< 4.0		13.4		
11/9/2016		26			< 0.0090					10		22	7.6				98		11.3		0.58		< 0.00040		2.4		0.042					0.20		37.2	7.32					1.2			4.6		8.7	7.3		70	11	< 4.0		6.3		
5/25/2017		31	0.23		< 0.0090		0.0088	< 2.0		12		< 10	9.7					< 0.0020	9.9		0.74		< 0.00040		2.6		0.095		< 0.00020			0.062		73.3	7.08					1.0			5.9		< 5.0	15.6		82	8.1	< 4.0		4.8		< 0.020
8/17/2017		56			< 0.0090					18		< 10	7.9						7.1		1.2		< 0.00040		3.5		0.16					0.17		57.6	7.41					1.9			5.7		< 5.0	17.9		100	6.8	< 4.0		10.5		
11/17/2017		11			< 0.0090					6.6		12	9.8						11.6		1.1		0.00057		1.8		0.14					< 0.050		-26.0	6.72					1.1			5.5		< 5.0	4.5		67	14	< 4.0	3.1			
5/2/2018		10	0.30		< 0.0090		0.0065	< 2.0		5.3		33	9.4					< 0.0020	10.3		0.55		< 0.00040		1.3		0.055					< 0.050		59.9	6.71					0.65			5.2		< 5.0	17.5		52	8.9	< 4.0	2.4			< 0.020
8/29/2018		46			< 0.0090					16		13	14						4.8		1.4		0.00044		3.3		0.29					0.24		77.8	6.03					1.9			7.4		< 5.0	22.1		120	10	10	19.6			
11/15/2018		12			< 0.0090					6.2		36	11						13.3		0.66		0.00044		1.4		0.075					0.067		5.9	6.18					0.67			5.3		< 5.0	0.7		53	13	< 4.0	4.0			
5/15/2019		32	0.33		< 0.0090		0.0067	< 2.0		4.9		32	9.6					< 0.0020	9.7		0.56		< 0.00040		1.1		0.062					< 0.050		62.9	6.69					0.49			5.0		< 5.0	10.8		33	7.9	< 4.0	3.4			< 0.020
8/22/2019		22				< 9.0					11000	43	6.1						7.7			490		< 0.40		1800	

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																					
SW-301																																																					
5/5/1993		7	0.2	0.08	< 0.01		< 0.1	< 5	< 0.005	6		14	17		< 0.01	66	171	< 0.02			0.25		< 0.005		1		0.028			< 0.003	< 0.029999				6.64		0.05	< 3		< 0.02	8		6	12.4	< 0.01	57	6	12			< 0.01	< 0.02
12/1/1993				< 0.02				2		6.9		20	17.8			5	107			6.7	0.054		< 0.0008		1.2		0.024								6.59		< 0.1				9.2		11.4	1.7		75	8.1	< 3	< 0			
2/7/1994																	<																		<														< 0			
5/23/1994				< 0.02				< 2		6.09		10	21.8	< 2	< 0.0058	34	114			6.1	0.117		< 0.0008		0.954		0.0128								6.64	< 1	< 0.1				12.5		4.9	15		69	4.5	3	< 0			
8/16/1994																	<																		<														< 0			
11/30/1994				< 0.02				< 2		9.27		< 8	30.2			650	148			9.2	0.107		< 0.0009		1.6		0.0225								7.29		< 0.2				13.4		4.4	2.1		80	4.3	< 3	< 0			
3/2/1995				< 0.02				2		14.7		< 8	34.9			90	163			14.7	3.54		0.0056		3.15		0.273								8.56		< 0.2				14.9		4.3	0.7		85	2.1	44	< 0			
5/11/1995				0.032				< 2		8.28		11	29.4			90	139			8.3	0.197		< 0.0009		1.33		0.0253								8.34		< 0.2				15.1		2.8	8.9		80	3.5	< 3	< 0			
8/24/1995																	<																		<														< 0			
12/6/1995				< 0.02				< 2		6.24		13	20.2			<	122			6.2	0.064		< 0.0009		0.98		0.0135								8.38		< 0.2				10.6		12.3	2.1		80	4.4	< 3	< 0			
2/28/1996				< 0.02				< 2		5.89		7	25.2			24	104			5.9	0.0484		< 0.0009		0.942		0.0036								6.89		< 0.2				14.3		5.4	3.8		65	4.5	< 3	< 0			
5/22/1996				< 0.02				< 2		5.48		21	14.6	< 0.4	< 0.0034	284	94			5.5	0.0308		< 0.0009		0.849		0.0063								7.54	< 2	< 0.2				10.6		3.6	14.6		63	5.5	< 3	< 0			
SW-7																																																				
5/5/1993		22	0.1	0.07	< 0.01		< 0.1	< 5	< 0.005	6.7		28	5		< 0.01	6	62	< 0.02			0.19		< 0.005		1.4		0.019			< 0.003	< 0.029999				6.94		0.03	< 3		< 0.02	3		5	20.3	< 0.01	59	12	< 3			< 0.01	< 0.02
11/30/1993				< 0.02				2		8.3		45	6.2			250	84			8.8	0.27		< 0.0008		2		0.0094								6.77		80				3.4		13.4	0.9		80	14.2	< 3	< 0			
3/15/1994				0.067				< 2		10.1		25	6.9			1020	99			9.7	0.56		< 0.0008		2.4		0.1								8.17		< 0.1				4.5		7.9	1.8		55	9.4	< 3	< 0			
5/23/1994				< 0.02				< 2		10.8		35	6.1	< 2	< 0.0058	810	37			10.8	0.405		< 0.0008		2.11		0.0396								7.16	< 1	< 0.1				4.2		1.2	18.7		68	11.9	3	< 0			
8/17/1994				0.026				2		17.3		39	5			10500	135			17.3	1.32		< 0.0009		3.66		0.665								7.18		< 0.2				5.68		1.4	14.3		76	11.6	< 3	< 0			
11/30/1994				< 0.02				< 2		12		25	5.4			1010	107			12	0.369		< 0.0009		2.52		0.0469								6.99		< 0.2				4.37		6.5	0.1		81	10.9	< 3	< 0			
3/2/1995				0.12				2		12		25	7.8			370	106			12	0.813		0.0012		2.62		0.177								8.05		< 0.2				4.9		4.6	1		66	7.1	12	< 0			
5/11/1995				< 0.02				< 2		11.6		31	6.5			160	101			11.6	0.506		< 0.0009		2.36		0.0824								7.78		< 0.2				5.11		3	12.9		69	9.3	< 3	< 0			
8/24/1995																	<																		<														< 0			
12/6/1995				< 0.02				< 2		12.1		26	7.2			<	112			12.1	0.304		< 0.0009		2.35		0.0387								7.21		< 0.2				3.85		16.3	0.6		107	9.5	< 3	< 0			
2/28/1996				< 0.02				< 2		5.35		14	4.5			240	53			5.3	0.176		< 0.0009		1.12		0.0187								7.29		< 0.2				3.16		5.7	3		39	6.1	< 3	< 0			
5/22/1996				< 0.02				< 2		9.43		44	4.1	< 0.4	< 0.0034	<	78			9.4	0.411		< 0.0009		1.69		0.058								7.18	< 2	0.51				3.4		1.3	18.5		72	11.5	< 3	< 0			
SW-801																																																				
12/5/2003										20.6		< 10					134				0.11		< 0.005		3.8		0.016								6.24			2.5			5.7			1.2		92	2.4	< 3		3.8		
5/12/2004	91.9	91.9	1.6	0.12	< 0.01		0.025	< 2	< 0.005	27.7		17	4.4	< 5	< 0.01		230	< 0.025			2.6		< 0.005		5.8		1		< 0.0002	< 0.2	< 0.04		156		7.4	< 10		3.6			9.5	10	21.4			117	< 1	19		9.7	< 0.025	< 0.02
8/9/2004	86.3	86.3		0.11	< 0.01					27.1		< 10	5.6				228				0.55		< 0.005		5.4		0.27								7.09			3.3			9.1		14.3	21.1		121	< 1	8		8.1		
12/7/2004	53	53		0.082	< 0.01					14.8		< 10	4.6				140				0.84		< 0.005		2.9		0.28								6.84			1.6			5		8.8	2.1		99	1.6	12		1		
4/25/2005		12	0.61	0.18	< 0.01		0.0053	< 2	< 0.005	4.2		< 10	2.2	< 5	< 0.01		33	< 0.025			0.46		< 0.005		0.62		0.043			< 0.2	< 0.04		10.9		7.13	< 10		0.69			1.3		2	11.6		211	< 1	< 3		13.1	< 0.025	< 0.02
12/22/2005		198		< 0.02	< 0.01					40.1		< 10	6.5				480				0.088		< 0.005		9		0.22								7.35			3.5			13.1		22.6	0.9		213	1.6	3		1.2		
5/15/2006		23.2	< 0.2	< 0.02	< 0.01		< 0.005	< 2		7.9		22.9	1.5				245	< 0.025			0.16		< 0.005		1.4		0.06			< 0.2			143		6.6			1.2			1.7		3.1	18.6		60	1.2	< 4		4.1		< 0.02
8/30/2006		193		0.096	< 0.01					49.4		25.3	5				343				1.8		< 0.005		10.7		1.4											4.2			15.8		14.6	19.5		190	2.4	576	14.9			
12/14/2006		56		< 0.02	< 0.01					20.2		< 10	2.3								0.2		< 0.005		3.6		0.085											2.1			5.2		10.8			<	< 1	6				
5/11/2007								< 2																																													
5/18/2007		15.2	< 0.2	0.16	< 0.01		< 0.005			5.8		< 10	2				54	< 0.025			0.19		< 0.005		0.98		0.08			< 0.2			172.4		6.53			1.1			1.4		5.1	9.2		17	1.5	< 4		3.6		< 0.02
8/16/2007		79.5		0.32	< 0.01					21.1		< 10	2.2				151				1.4		< 0.005		4.2		0.86								6.99			2.7			4.8		3.7	21		96	< 1	5.6		2.3		
12/5/2007		75.4		0.12	< 0.01					19.6		< 10	6.9				77				0.046		< 0.005		4		0.55								7.44			2			6.8		3.2	1.1		134	1.4	< 4		0.8		
5/1/2008		11.9	< 0.2	0.082	< 0.01		< 0.005	< 2		4.3		< 10	0.96				37	< 0.025			0.11		< 0.005		0.69		0.065			< 0.2			-73.6		6.44			0.75			0.88		< 1	11.2		17	< 1	< 4		2.9		< 0.02
8/18/2008		101		0.18	< 0.01					29		< 10	3.9								21.8		< 0.005		9.5		2.6								6.62			6.4			8.3		2.8			173	1.3	800				
12/16/2008		13.1		0.24	< 0.01					3.2		< 10	1.1								1.6		< 0.005		0.77		0.48											0.71			0.71		1.4			<	< 1	25.2				
5/13/2009		29.0	< 0.200	< 0.020	< 0.0100		< 0.0050	< 2.0		9.3		< 10.0	1.0				70	< 0.0250	7.9		0.243		< 0.0050		1.70		0.202		< 0.0002			0.256		171	7.42			1.32			1.7		3.58	18		64.0	< 1.0	< 4.0		1.6		< 0.0200
9/3/2009		70.3		0.137	0.0068					19.1		< 10.0	3.1				164		6.1		5.89		< 0.0050		4.66		2.18				0.143			7.25			3.37			5.1		< 1.49	21.5		83.0	< 1.0	83.6		17.1		
11/13/2009		54.5		< 0.020	< 0.0056					14.4		< 10.0	2.3				109		9.7		0.160		< 0.0050		3.21		0.521				0.061			7.04			1.68			3.3		7.95	3.1		70.0	1.0	< 4.0		1.1		
5/6/2010		57.4	0.096	0.038	< 0.0056		< 0.0050	< 2.0		16.3		< 10.0	1.7				141	< 0.0250	8.2		0.258		< 0.0050		3.38		0.800		< 0.0002			0.057		205	6.61			1.81			3.7		< 1.49	17		52.0	1.1	< 4.0		1.6		< 0.0200
8/11/2010		98.4		0.135	< 0.0056					24.9		< 10.0	2.7				225		6.8		1.96		< 0.0050		5.59		2.38				< 0.050		26	7.02			2.54			5.6		10.7	22.1		102	1.5	43.6		9.6		
11/12/2010		27.4		< 0.020	< 0.0056					8.8		< 10.0	3.1				102		10.8		0.100		< 0.0050		1.79		0.197				0.476		189.8	6.38			1.54			1.4		5.32	10		83.0	< 1.0	15.6		5		
5/11/2011		129	0.14	< 0.020	< 0.0056		0.0088	< 2.0		38.5		< 10.0	4.2				305	< 0.025	10.1		0.39		< 0.0050		9.5		1.4		< 0.00020			0.14		207	6.81			3.7			9.3		4.7	15.5		152	1.7	< 4.0		4.5		< 0.020
8/9/2011		177			0.0063					38.8		< 10.0	4.1				407		5.5		4.2		< 0.0050		9.3		1.8				< 0.050		73.9	7.24			4.1			9.8		< 1.5	24.0		183	2.2	421		16.6		
11/14/2011		79.5			< 0.0056					22.4		< 10.0	7.3				215		9.9		0.95		< 0.0050		5.8		0.64				0.22		90.0	7.02			3.0			5.5		2.3	11.3		165	2.6	4.4		10.2		
5/9/2012		15.7	1.4		< 0.0056		0.012	< 2.0		6.6		< 10.0	3.0				105	0.0022	4.5		1.3		< 0.0050		1.8		0.072		< 0.00020			0.49		104.4	7.08			1.4			1.5		3.8	12.9		53.0	1.9	< 4.0		46.8		0.0017
8/16/2012		17.7			< 0.0056					7.4		9.1	1.0				62		6.6		1.1		0.0031		1.7		0.23				0.16		-4.6	6.33			1.7			1.1		< 1.5	21.3		37.0	1.8	7.6		22.7		
11/9/2012		12.8			< 0.0056					5.0		< 10.0	3.6				53		9.9		0.24		< 0.0050		1.2		0.034				0.16		88.9	6.01			1.2			1.5		5.5	6.5		32.0	< 1.0	< 4.0		13.0		
4/12/2013		150	0.26	0.019	< 0.0056		0.013	< 2.0		38.9		< 10.0	2.9				320	< 0.025	9.4		0.98		0.0031		10.4		1.4		< 0.00020			0.18		221.0	5.85			3.3			9.0		6.1	6.9		182	1.9	10.4		6.0		0.0029
8/14/2013		92.3			0.042					29.6		7.4	2.7				233		4.4		29.3		0.0048		8.7		8.3				0.15		391.9	6.8			4.7			5.7		< 1.5	21.4		135	2.7	178		120		
11/11/2013		159			0.0059					41.8		8.3	3.2				300		11.6		0.55		< 0.0050		10.6		1.4				0.54		117.6	7.87			3.6			9.7		15.7	6.6		157	0.89	4.8		17.1		
5/8/2014		104	0.081		< 0.0056		0.0093	< 2.0		30.1		< 10.0	7.2				237	0.0038	10.9		0.36		< 0.0050		7.0		1.1		< 0.00020			0.29		74	7.26			3.1			7.0		10.8	16.2		131	2.1	9.2		0		0.0035
8/14/2014		14.3		< 0.020	< 0.0056					5.0		< 10.0	0.77				36		7.9		0.33		< 0.0050		0.74		0.078				0.051		167.0	6.08			0.97			0.67		< 1.5	18.2		35.0	1.7	< 4.0		4.3		
11/4/2014		25.4			< 0.0056					10.2		7.0	1.3				76		4.9		0.33		< 0.0050		2.2		0.13				0.51		129.0	6.53			1.4			1.6		5.2	8.0		57.0	0.74	< 4.0		2.3		
4/28/2015		47.9	0.16		< 0.0056		0.0060	< 2.0		15.4		< 10.0	2.4				92	< 0.025	9.2		0.44		< 0.0050		2.7		0.28		< 0.00020			0.55		135	7.13			1.9			2.1		< 1.5	9.3		56.0	< 1.0	< 4.0		0		0.0030
8/11/2015		156			0.0057					49.5		< 10.0	4.8				330		4.6		4.4		< 0.0050		12.7		2.3				0.46		-28.0	8.39			5.1			13.0		7.9	18.7		204	2.8	14.4		0		
11/9/2015		110			< 0.0056					28		< 10	2.5				156		9.3		0.35		< 0.0050		6.6		0.23				0.34		67.0	6.83			2.9			6.0		2.5	11.9		130	1.8	21		7.9		
5/17/2016		110	0.88		< 0.0056		0.019	< 2.0		29		< 10	2.0				241	< 0.025	7.9		2.5		< 0.0050		6.9		1.5		< 0.00020			0.14		88.3	7.19			3.4			5.9		2.7	15.5		110	1.6	6.8		3.6		< 0.020
8/18/2016		180			< 0.0056					50		11	3.7				410		4.7		1.1		< 0.00040		13		0.98				0.21		27.6	7.29			4.7			13		16	21.7		210	2.4	75		6.5		
11/9/2016		180			< 0.0090					45		< 10	3.9				331		9.4		1.3		< 0.00040		12		0.54				0.34		58.7	6.96			4.2			11		17	9.1		200	2.5	5.6		11.9		
5/25/2017		180	1.5		< 0.0090		0.040	< 2.0		50		< 10	3.9					0.0022	10.0		4.1		0.0015		12		3.1		< 0.00020			0.48		61.5	7.08			4.3			12		< 5.0	16.9		210	2.7	130		1.0		< 0.020
8/17/2017		200			< 0.0090					53		< 10	3.7						8.5		1.3		< 0.00040		13		1.2				0.87		70.0	7.76			5.0			12		18	22.5		260	2.0	28		9.3		
11/17/2017		63			< 0.0090					19		< 10	1.6						9.8		0.44		< 0.00040		3.8		0.23				0.14		211.4	6.19			2.4			3.1		< 5.0	5.1		84	3.0	< 4.0	3.3			
5/2/2018		70	< 0.080		< 0.0090		< 0.0050	< 2.0		20		< 10	1.4					< 0.0020	7.9		0.11		< 0.00040		3.4		0.083				0.060		34.1	6.61			2.7			2.9		< 5.0	24.2		90	2.0	5.2	225			< 0.020
8/29/2018		130			0.032					35		< 10	2.2						6.2		18		0.0051		8.6		10				0.12		116.5	5.79			4.7			6.3		< 5.0	24.1		150	2.6	120	23.2			
11/15/2018		74			< 0.0090					22		< 10	1.7						11.7		0.29		< 0.00040		3.5		0.43				0.29		28.6	6.21			2.2			3.2		8.3	3.3		93	2.2	5.6	2.8			
5/15/2019		40	0.098		< 0.0090		< 0.0050	< 2.0		14		12	1.4					< 0.0020	11.1		0.10		< 0.00040		1.8		0.026				< 0.050		174.7	6.11			1.8			1.7		< 5.0	11.0		35	2.1	< 4.0	4.3			< 0.020
8/22/2019		25				< 9.0					8200	< 10	0.62						9.3			380		< 0.40		1000		45				0.13		174.0	7.34					1400			870	< 5.0	22.5		56	1.4	< 4.0	6.2			
11/18/2019		120				< 9.0					29000	11	2.6						13.9			400		< 0.40		6600		460				0.27		226.7	6.89					2700			5400	< 5.0	4.0		73	2.2	22	1.8			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-9																																																						
5/5/1993		22	0.1	0.08	< 0.01		< 0.1	< 5	< 0.005	7.3		28	7		< 0.01	12	60	< 0.02			0.22		< 0.005		1.5		0.02			< 0.003	< 0.029999				6.95		0.03	< 3		< 0.02	3		6	19.5	< 0.01	47	12	< 3			< 0.01	< 0.02
11/30/1993				< 0.02				2		8.1		40	6			280	84			8.5	0.24		< 0.0008		2		0.009								6.65		81				3.6		13.8	0.9		81	16.5	< 3	< 0			
3/15/1994				0.077				< 2		9.2		37	6.9			1100	101			9.6	0.54		< 0.0008		2.1		0.097								7.85		< 0.1				4.1		5.9	1.3		79	9.8	< 3	< 0			
5/23/1994				< 0.02				< 2		10.2		37	5.9	< 2	< 0.0058	640	89			10.2	0.365		0.0011		1.95		0.0349								7.26	< 1	< 0.1				4.03		1.1	18.4		74	1.5	3	< 0			
8/17/1994				0.037				< 2		15.6		42	5.4				123			15.6	0.576		< 0.0009		3.33		0.125								7.17		< 0.2				4.98		2	14.6		103	13.7	< 3	< 0			
11/30/1994				< 0.02				2		10.7		27	6.8			1220	98			10.7	0.365		< 0.0009		2.31		0.0393								6.99		< 0.2				3.81		5.2	0.1		95	11.4	< 3	< 0			
3/2/1995				0.14				2		13.4		23	7			410	109			13.4	3.51		0.0058		3.35		0.302								7.62		0.21				6.76		< 0.699999	0.7		59	7.9	98	< 0			
5/11/1995				< 0.02				2		10.4		31	6.4			330	93			10.4	0.525		< 0.0009		2.16		0.0818								7.92		< 0.2				4.79		2.7	13.1		56	10.1	< 3	1			
8/24/1995																	<																		<																< 0		
12/6/1995				< 0.02				< 2		9.86		30	5.8			<	98			9.9	0.336		< 0.0009		1.99		0.0367								7.2		< 0.2				3.52		15.4	0.7		76	10	< 3	< 0			
2/28/1996				< 0.02				< 2		4.88		17	4.3			180	49			4.9	0.253		< 0.0009		1.06		0.0431								7.37		< 0.2				3.06		5.2	3		39	6.5	6	< 0			
5/22/1996				< 0.02				< 2		8.49		47	3.7	< 0.4	< 0.0034	<	71			8.5	0.438		< 0.0009		1.55		0.0555								7.31	< 2	0.36				3.35		< 0.699999	18.3		63	11.4	< 3	< 0			
8/14/1996								< 2		16.3		37					125				1.61		< 0.001		3.19		0.213								7.6			1.05			4.79			14		100	14.6	< 3	< 0			
12/4/1996								< 2		6.13		35					52				0.244		0.0013		1.32		0.0089								8.9			1.27			2.71			1		51	10	< 3	< 0			
5/5/1997		26		< 0.02	0.0043		0.0032	< 2	< 0.0044	6.99		15	4.2	< 0.4	< 0.004		77	< 0.01		7	0.214		< 0.001		1.35		0.0257			< 0.049999	< 0.018999				7.57	< 2		1.44			3.75		< 0.699999	14.7		55	9.1	< 3	< 0		< 0.007	< 0.01
8/11/1997								< 2		12.3		19					116				0.748		< 0.001		2.31		0.226								7.45			1.19			3.78			21.8		79	10.8	< 3	< 0			
12/3/1997								< 2		8.61		29					82				0.387		< 0.001		1.77		0.0391								7.36			1.22			3.57			1.1		387	11.4	30	< 0			
3/12/1998		14.7		< 0.02	< 0.003		0.0051	< 2	< 0.004	5.45		42	3.5	< 0.4	< 0.004		40	0.0119		5.5	0.394		< 0.001		1.31		0.053			0.14	< 0.018999				6.9	< 1		0.63			2.38		1.2	0.3		72	7.4	25			< 0.007	0.0181
4/23/1998		31		< 0.02	< 0.003		0.0038	< 2	< 0.004	8.04		21	20.2	< 0.4	< 0.004		54	< 0.011		8	0.241		0.002		1.61		0.028			< 0.099999	< 0.018999				7.01			1.38			3.68		2.1	10.6		74	9.5	< 3	< 0		< 0.007	< 0.01
8/20/1998								< 2		17.7		31					126				0.934		0.0019		3.56		0.155								7.58	< 1		1.68			4.99			14.2		91	10.3	28	< 0			
12/2/1998								< 2		11.7		38.6									0.34		< 0.005		1.8		0.033											1.2			5.1					16	12.7	< 3				
4/27/1999		26.6		0.12	< 0.01		0.0066	< 2	< 0.005	11.5		23.8	6.5	< 5	< 0.01		92	< 0.025			0.55		< 0.005		2.1		0.084			< 0.2	< 0.04				7.7	< 10		0.92			8.6		7.1	11.5		64	10.6	4.5			< 0.025	0.041
8/10/1999								2.4		15.7		23.5					110				0.5		< 0.005		3.1		0.11								7.65			0.99			3.5			16.7		85	10.3	< 3				
11/16/1999								< 2		7.6		30.3					57				0.27		< 0.005		1.7		< 0.01							7.5				1.1			4			2.8		66	14.5	3.5				
4/27/2000		19		< 0.02	< 0.01		< 0.005	< 2	< 0.005	7.2		21.6	4.4	< 5	< 0.01		52	< 0.025			0.27		< 0.005		1.4		0.025			< 0.2	< 0.04				7.75	< 10		1.1			3.3		3	9.7		136	9	< 3			< 0.025	< 0.02
8/21/2000								< 2		15.8		31.3					120				1		< 0.005		2.9		0.35								6.98			1.2			4.9			18		59	13.3	< 3				
5/7/2001		128		0.02	< 0.01		0.0078	< 2	< 0.005	42.1		< 10	15	< 5	< 0.01		268	< 0.025			0.46		< 0.005		6.4		0.095			< 0.2	< 0.04				6.82	< 10		5.2			5.5		15.5	19.7		189	3.5	< 3			< 0.025	< 0.02
8/6/2001								< 2		19.7		19.8					3142				0.58		< 0.005		3.6		0.13								7.21			2.4			6.5			23.6		85	12.7	< 3				
12/3/2001								< 2		10.8		29.1					112				0.27		< 0.005		2.5		0.019								7.21			2			6.4			5.1		94	14.4	4				
5/7/2002	28.6	28.6		< 0.02	< 0.01		< 0.005	< 2	< 0.005	9.1		25.6	7.1	< 5	< 0.01		85	< 0.025			0.3		< 0.005		1.8		0.029			< 0.2	< 0.04				7.9	< 10		1.1			4.8		3.6	19.2		325	10.2	< 3			< 0.025	< 0.02
4/28/2003	< 5	< 5		< 0.02	< 0.01		< 0.005	< 2	< 0.005	6.7		33.9	6	< 5	< 0.01		63	< 0.025			0.21		< 0.005		1.4		0.024			< 0.2	< 0.04	151			7.5			1.1			4		7.5	16		86	10.6	< 3		1.2	< 0.025	< 0.02
8/11/2003										18.5		81.6					134				4.7		< 0.005		3.4		2								6.85			2.2			4.9			29.8		150	29.2	4		12.5		
12/5/2003										10.1		22.5					84				0.29		< 0.005		2.2		0.024								6.3			1.2			5.5			0.8		68	9.4	< 3		2.5		
5/12/2004	20.2	20.2	< 0.2	0.073	< 0.01		< 0.005	< 2	< 0.005	9.4		47.3	6.1	< 5	< 0.01		92	< 0.025			0.46		< 0.005		1.8		0.069		< 0.0002	< 0.2	< 0.04	200			6.8	< 10		1.1			4.6		< 1	20.8		53	7.2	< 3		2	< 0.025	< 0.02
8/9/2004	38.4	38.4		0.23	< 0.01					17.1		81.9	5.5				129				2.9		< 0.005		3.3		0.96								6.81			1.4			4.4		< 1	20.1		93	17.2	6		10		
12/7/2004	30.8	30.8		0.05	< 0.01					10		31	6.7				100				0.4		< 0.005		2.1		0.028								6.93			1.5			4.4		< 1	1.4		42	13	6		2.1		
5/4/2005								< 2																																													
5/4/2005		23.2	< 0.2	0.079	< 0.01		< 0.005		< 0.005	8.2		< 10	5.3	< 5	< 0.01		73	< 0.025			0.23		< 0.005		1.6		0.018			< 0.2	< 0.04	108			7.7	< 10		0.94			4.3		< 1	11.8		61	8.7	< 3		2.5	< 0.025	< 0.02
8/12/2005		60.2		0.17	< 0.01					16.9		32.2	5.4				126				0.58		< 0.005		3		0.48								7.68			1.4			6.2		< 1	22.7		91	9.9	5		2.5		
5/15/2006		20.6	< 0.2	0.11	< 0.01		< 0.005	< 2		9.2		27.4	5.6				255	< 0.025			0.29		< 0.005		1.7		0.025			< 0.2		78			6.9			0.95			4.1		< 1	16.8		100	10.8	< 4		2.3		< 0.02
8/30/2006		36.1		0.069	< 0.01					12.1		47.6	4.2				103				0.45		< 0.005		2		0.027											0.92			4.3		< 1	20.4		48	12.2	< 4	2.1			
12/14/2006		20.8		0.03	< 0.01					7.8		32.6	3.5								0.31		< 0.005		1.4		0.033											0.92			3.5		< 1	8.2		30	5.5	7	8.3			
5/11/2007								< 2																																												
5/18/2007		14	0.22	< 0.02	< 0.01		< 0.005			6.8		19.5	6				64	< 0.025			0.34		< 0.005		1.3		0.027			< 0.2		192.5			6.22			0.73			3.7		< 1	7.6		25	9.3	< 4		2.1		< 0.02
8/16/2007		55.2		0.39	< 0.01					17.8		19.5	3.9				122				0.47		< 0.005		2.9		0.043								7.12			1.4			4.2		< 1	18		73	8.6	< 4		5.4		
12/5/2007		31.1		0.16	< 0.01					12.4		17.5	4.1				79				0.37		< 0.005		2.4		0.04								7.66			1.3			4.2		2.5	3.4		109	7.6	< 4		2		
5/1/2008		12.9	< 0.2	< 0.02	< 0.01		< 0.005	< 2		6.7		28.3	4.4				61	< 0.025			0.22		< 0.005		1.2		0.015			< 0.2		-80.4			6.47			0.82			3.2		< 1	10.1		21	4.5	< 4		2.1		< 0.02
8/18/2008		57.1		0.21	< 0.01					14.8		45.8	5.5								0.78		< 0.005		2.5		0.082								6.32			1.3			4.2		< 1			109	15	< 4				
12/16/2008		15.9		0.069	< 0.01					5.9		14.7	3.2								0.3		< 0.005		1.3		0.019											0.87			2.9		2.6			50	3	< 4				
5/13/2009		21.3	< 0.200	< 0.020	< 0.0100		< 0.0050	< 2.0		7.6		18.0	8.5				83	< 0.0250	10.5		0.532		< 0.0050		1.55		0.0326		< 0.0002			< 0.050		172	6.85			1.09			7.4		< 1.00	17.2		71.0	10.2	< 4.0		2.7		< 0.0200
9/3/2009		53.4		0.185	< 0.0056					16.3		< 10.0	3.7				129		7.5		0.559		< 0.0050		2.93		0.0425					0.140			7.32			1.62			4.6		< 1.49	20.1		96.0	8.6	< 4.0		3.7		
11/13/2009		30.9		0.029	< 0.0056					10.5		31.6	7.9				88		12.5		0.405		< 0.0050		2.04		0.0748					< 0.050			7.02			1.50			4.0		1.97	4		62.0	9.1	< 4.0		3.2		
5/6/2010		28.3	0.423	0.069	< 0.0056		0.0058	< 2.0		10.9		25.9	3.1				90	< 0.0250	4		0.675		< 0.0050		1.98		0.120		< 0.0002			< 0.050		192	6.95			1.02			3.4		< 1.49	15.9		65.0	8.4	5.2		1.4		< 0.0200
8/11/2010		75.0		0.142	< 0.0056					21.8		25.1	2.5				168		7.5		0.665		< 0.0050		3.74		0.128					0.088		212	7.11			2.17			3.6		1.61	22.9		135	6.9	< 4.0		6.4		
11/12/2010		23.0		< 0.020	< 0.0056					8.9		32.0	3.3				78		11.3		0.287		< 0.0050		1.73		0.0295					0.084		219.6	5.81			1.19			3.0		< 1.49	5.3		75.0	5.5	< 4.0		2.3		
5/11/2011		29.6	0.28	< 0.020	< 0.0056		< 0.0050	< 2.0		9.9		18.2	5.1				86	< 0.025	9.2		0.46		< 0.0050		1.9		0.056		< 0.00020			< 0.050		186	6.98			1.1			4.0		< 1.5	14.7		59.0	7.8	< 4.0		4.4		< 0.020
8/9/2011		83.5			< 0.0056					24.1		24.4	3.3				213		6.4		0.51		< 0.0050		4.4		0.18					0.17		58.0	7.36			2.3			4.4		< 1.5	21.9		120	7.0	< 4.0		4.8		
11/14/2011		26.3			< 0.0056					9.7		30.4	5.0				99		8.4		0.50		< 0.0050		1.9		0.040					< 0.050		85.0	7.48			1.6			3.5		2.0	10.7		104	11.0	< 4.0		4.6		
5/9/2012		25.0	0.19		< 0.0056		0.0038	< 2.0		8.8		26.7	6.0				100	< 0.025	2.9		0.38		< 0.0050		1.6		0.041		< 0.00020			< 0.050		82.1	7.12			0.90			4.1		< 1.5	12.3		77.0	8.1	5.2		8.1		< 0.020
8/16/2012		30.3			< 0.0056					14.0		28.7	2.2				100		6.1		1.2		< 0.0050		2.1		0.17					0.53		-4.2	6.38			1.8			2.1		< 1.5	19.5		73.0	6.1	16.8		24.3		
11/9/2012		15.6			< 0.0056					8.4		16.6	6.6				85		10.1		0.46		< 0.0050		1.6		0.042					0.11		159.7	5.74			1.7			3.9		< 1.5	6.4		52.0	2.8	4.4		5.8		
4/12/2013		16.4	0.24	0.042	< 0.0056		0.0038	< 2.0		6.2		28.4	6.7				68	< 0.025	12.9		0.34		< 0.0050		1.3		0.039		< 0.00020			0.076		83.5	5.73			0.83			3.6		< 1.5	2.7		62.0	7.3	18.0		3.9		< 0.020
8/14/2013		< 10			< 0.0056					3		90.2	3				36		4.8		1.5		< 0.005		1.3		0.06					< 0.05		331	7.63			0.51			1.5		< 1.5	20.8		111	37.7	< 4		19		
11/11/2013		30.4			< 0.0056					11.5		31.3	8.1				103		12.0		0.45		< 0.0050		2.3		0.054					0.023		133.0	7.20			1.8			5.5		< 1.5	5.0		58.0	10.0	< 4.0		5.4		
8/20/2014		17.8		0.025	< 0.0056					6.5		39.2	1.1				56		1.9		3.0		< 0.0050		1.6		0.17					0.43		-8.0	6.46			1.1			2.1		< 1.5	17.4		50.0	9.6	11.6		0		
11/4/2014		12.5			< 0.0056					8.4		24.1	1.4				32		4.1		0.31		< 0.0050		1.2		0.10					< 0.050		66.0	6.19			1.5			1.4		< 1.5	5.6		53.0	2.4	< 4.0		0		
4/28/2015		5.7	0.085		< 0.0056		0.0017	< 2.0		3.0		13.4	1.7				33	< 0.025	6.3		0.23		< 0.0050		0.81		0.010		< 0.00020			0.021		72	7.07			0.95			1.5		< 1.5	8.9		15.0	4.4	< 4.0		5.6		0.0025
11/9/2015		28			< 0.0056					6.6		19	2.3				50		6.0		0.72		< 0.0050		1.9		0.078					< 0.050		-20.0	6.82			1.6			4.4		1.6	8.50		50	6.0	22		13.7		
5/17/2016		26	0.12		< 0.0056		0.0055	< 2.0		7.4		20	0.77				73	< 0.025	9.9		0.36		< 0.0050		1.9		0.037		< 0.00020			< 0.050		76.1	7.74			1.2			2.0		1.8	16.6		23	5.1	15		2.9		< 0.020
8/18/2016		12			< 0.0056					12		39	1.8				115		4.5		0.79		< 0.00040		2.6		0.064					< 0.050		60.1	7.28			1.7			3.0		27	20.8		62	11	< 4.0		3.3		
11/9/2016		17			< 0.0090					8.3		< 10	3.2				142		10.3		0.99		< 0.00040		2.2		0.042					1.5		-22.1	6.98			1.5			3.1		7.7	8.1		26	6.3	< 4.0		2.5		
5/25/2017		37	< 0.080		< 0.0090		< 0.0050	< 2.0		12		< 10	1.7					< 0.0020	8.9		0.14		< 0.00040		2.0		< 0.010		< 0.00020			< 0.050		81.2	7.13			0.99			1.5		< 5.0	16.9		43	4.0	15		1.0		< 0.020
8/17/2017		41			0.012					11		20	1.9						3.8		3.0		< 0.00040		2.3		0.17					< 0.050		99.0	6.35			1.5			5.0		< 5.0	17.9		65	11	6.4		5.2		
11/17/2017		28			< 0.0090					11		< 10	3.1						10.0		1.5		< 0.00040		3.0		0.068					< 0.050		-65.8	6.88			1.9			12		< 5.0	4.2		51	6.8	< 4.0	1.8			
5/2/2018		43	0.080		< 0.0090		< 0.0050	< 2.0		7.8		27	2.4					< 0.0020	6.6		0.36		< 0.00040		2.0		0.026					< 0.050		109.6	5.63			1.5			4.7		< 5.0	21.9		41	3.8	< 4.0		3.5		< 0.020
8/29/2018		66			< 0.0090					13		34	4.3						3.0		1.6		< 0.00040		3.2		0.12					< 0.050		75.5	6.11			2.1			11		< 5.0	22.3		82	7.9	< 4.0	6.0			
11/15/2018		46			< 0.0090					11		71	4.8						6.3		1.3		0.00074		2.9		0.064					< 0.050		-15.0	6.03			1.6			10		< 5.0	0.5		96	6.2	86	20.9			
5/15/2019		11	0.13		< 0.0090		< 0.0050	< 2.0		3.9		28	1.7					< 0.0020	9.9		0.29		< 0.00040		1.0		< 0.010					< 0.050		75.0	6.49			0.67			1.7		< 5.0	11.0		27	7.2	< 4.0	3.1			< 0.020
8/22/2019		10				< 9.0					6300	50	1.0						7.7			690		< 0.40		1500		58			< 0.050		141.7	6.03				980			2500	< 5.0	24.5		78	17	9.6	7.5			
11/18/2019		42				36					24000	66	3.7						4.5			37000		19		10000		490			< 0.050		-66.7	6.97				3800			11000	< 5.0	2.4		25	9.7	72	305.0			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-A																																																						
5/7/2001		10.4		< 0.02	< 0.01		0.0069	< 2	< 0.005	5.1		20.8	7.8	< 5	< 0.01		58	< 0.025			0.54		< 0.005		1.2		0.055			< 0.2	< 0.04				7.77	< 10		0.6			4.4		1.5	15.6		56	13.5	3.5			< 0.025	< 0.02
12/3/2001								5.2		37.9		34.4					248				5.7		< 0.005		8		0.83								6.37			5.2			2.8				6.4		118	10.3	77				
5/7/2002	74.1	74.1		< 0.02	< 0.01		0.027	18	< 0.005	22		19.5	2.1	< 5	< 0.01		143	< 0.025			6.1		< 0.005		4.9		1.2			< 0.2	< 0.04				7.15	< 10		2.8			3		12.3	15.1		81	4.2	8			< 0.025	0.024
4/28/2003	61.2	61.2		< 0.02	< 0.01		0.013	< 2	< 0.005	26.8		46.7	2.2	< 5	< 0.01		164	< 0.025			2.1		< 0.005		4.4		0.28			< 0.2	< 0.04		165		6.67			2.6			2		8.7	17.5		123	2.7	19		2.4	< 0.025	< 0.02
8/11/2003										24.8		26.3					157				8.6		< 0.005		5.3		0.43								6.86			2.4			2.9		24.9			111	7.5	85		18.6		
5/12/2004	58.1	58.1	0.98	0.17	< 0.01		0.012	< 2	< 0.005	15.9		47.6	1.6	< 5	< 0.01		148	< 0.025			2.8		< 0.005		6.8		0.33		< 0.0002	< 0.2	< 0.04		89		6.86	< 10		1.5			3.5		3.6	19.6		81	9.8	27		14.7	< 0.025	< 0.02
5/4/2005								< 2																																													
5/4/2005		63.6	< 0.2	< 0.02	< 0.01		0.005		< 0.005	19.6		14.4	1.9	< 5	< 0.01		130	< 0.025			0.31		< 0.005		6		0.058			< 0.2	< 0.04		149		6.23	< 10		1.5			3		6	10		99	5	< 3		1.8	< 0.025	< 0.02
5/1/2008		< 5	0.26	< 0.02	< 0.01		0.0066	< 2		3.8		16.6	2.9				44	< 0.025			0.18		< 0.005		0.97		0.026			< 0.2			-47.1		6.59			0.63			2		< 1	10.4		37	4	< 4		3.8		< 0.02
8/18/2008		108		0.21	< 0.01					26.7		25.8	2.1								2.6		< 0.005		5.5		0.37								6.6			2.2			2.4		< 1			131	4.2	10.8				
5/13/2009		89.6	0.566	0.056	< 0.0100		0.0084	< 2.0		20.4		< 10.0	2.2				130	< 0.0250	8.2		2.41		< 0.0050		5.33		0.435		< 0.0002			0.133		132	6.38					1.66			2.2		1.05	18.7		90.0	4.9	< 4.0		5.0		< 0.0200
9/3/2009		105		0.236	0.0191					32.9		18.2	1.6				191		6		31.8		0.0137		6.88		4.11					0.105			6.91					3.97			2.6		< 1.49	19.3		98.0	5.7	670		192.0		
11/13/2009		75.0		0.124	< 0.0056					23.4		< 10.0	1.4				167		10.3		0.735		< 0.0050		6.86		0.281					< 0.050			6.77					1.67			2.5		3.93	3.4		79.0	4.9	< 4.0		2.6		
5/6/2010		84.1	0.286	0.066	< 0.0056		0.0067	< 2.0		25.2		< 10.0	1.1				189	< 0.0250	10.3		0.564		< 0.0050		4.86		0.182		< 0.0002			0.284		143	6.15					1.72			2.1		< 1.49	12		96.0	2.9	5.6		1.8		< 0.0200
8/11/2010		84.1		0.127	< 0.0056					28.1		< 10.0	1.5				183		7.6		0.492		< 0.0050		3.54		0.137					0.064		150	7.20					2.10			1.5		1.90	22.6		101	1.7	< 4.0		9.9		
11/12/2010		70.5		< 0.020	< 0.0056					19.5		< 10.0	1.8				158		7.9		1.25		< 0.0050		5.70		0.352					0.116		115.8	7.27					1.64			2.1		< 1.49	6.6		75.0	2.1	7.2		4.6		
5/11/2011		79.7	2.9	0.031	< 0.0056		0.023	< 2.0		23.3		< 10.0	1.2				157	< 0.025	9.7		6.1		0.0067		6.3		0.64		< 0.00020			0.18		168	6.65					2.1			2.1		< 1.5	14.1		84.0	4.7	< 4.0		4.2		< 0.020
8/9/2011		91.4			0.0065					30.3		12.8	2.0				235		3.0		17.8		0.0053		5.1		1.0					0.079		25.5	6.17					2.7			2.1		< 1.5	21.5		108	3.5	338		35.1		
11/14/2011		65.2			< 0.0056					20.7		< 10.0	2.0				165		11.3		1.3		< 0.0050		3.8		0.24					0.14		24.0	6.46					1.9			1.6		1.9	10.9		137	2.3	< 4.0		2.9		
5/9/2012		28.7	0.13		< 0.0056		0.0038	< 2.0		9.2		< 10.0	0.65				80	< 0.025	6.7		0.38		< 0.0050		0.91		0.060		< 0.00020			0.023		71.9	7.04					0.97			0.44		2.1	12.5		37.0	< 1.0	< 4.0		2.2		< 0.020
8/16/2012		39.7			< 0.0056					14.5		< 10.0	0.66				88		6.5		1.0		< 0.0050		1.4		0.13					0.18		30.2	6.02					1.6			0.48		< 1.5	19.8		49.0	0.56	30.4		15.3		
11/9/2012		19.7			< 0.0056					6.6		< 10.0	1.2				55		11.0		0.17		< 0.0050		1.4		0.055					0.096		224.7	6.03					0.83			1.1		< 1.5	5.3		42.0	< 1.0	< 4.0		7.0		
4/12/2013		56.1	0.39	0.097	0.0056		0.0063	< 2.0		15.3		12.6	1.2				122	< 0.025	12.1		1.8		< 0.0050		4.5		0.35		< 0.00020			0.33		100.5	5.02					1.3			2.0		< 1.5	2.0		83.0	4.0	15.6		7.1		0.0035
8/14/2013		38.1			< 0.0056					12.4		10	1.2				81		6.2		0.26		< 0.005		1.2		0.069					0.041		125.4	6.06					1			< 0.4		< 1.5	20.7		35	1.3	< 4		2.4		
11/11/2013		89.6			0.0058					22.9		37.3	1.9				154		9.8		6.3		< 0.0050		5.7		0.65					0.11		93.7	6.62					1.6			2.2		< 1.5	6.2		67.0	4.9	196		15.8		
5/8/2014		76.8	< 0.060		< 0.0056		0.0035	< 2.0		18.5		13.8	1.0				142	0.0028	8.4		0.31		< 0.0050		5.6		0.097		< 0.00020			0.21		30	7.30					1.5			2.3		< 1.5	12.2		86.0	3.9	< 4.0		0		< 0.020
8/14/2014		12.3		< 0.020	< 0.0056					5.2		29.2	0.50				29		6.9		0.19		< 0.0050		0.48		0.037					0.036		80.0	6.33					0.67			< 0.40		< 1.5	16.1		28.0	0.55	< 4.0		5.2		
11/4/2014		64.0			< 0.0056					17.4		15.1	1.2				111		5.0		0.65		< 0.0050		6.0		0.18					0.058		44.0	6.65					1.7			2.4		< 1.5	6.3		70.0	2.7	8.4		2.0		
4/28/2015		63.5	< 0.060		< 0.0056		0.0030	< 2.0		15.2		< 10.0	1.5				104	< 0.025	9.5		0.20		< 0.0050		4.9		0.10		< 0.00020			0.22		115	6.96					1.4			2.0		< 1.5	9.7		55.0	< 1.0	6.0		1.5		< 0.020
11/9/2015		90			< 0.0056					21		17	1.8				124		5.9		0.47		< 0.0050		8.6		0.18					< 0.050		21.0	6.93					2.0			3.3		2.1	9.4		99	8.1	< 4.0		74.8		
5/17/2016		70	0.067		< 0.0056		0.0054	< 2.0		20		< 10	0.83				144	< 0.025	8.6		0.22		< 0.0050		3.7		0.11		< 0.00020			0.14		88.7	7.17					1.6			1.4		2.4	14.5		51	1.3	28		2.4		< 0.020
8/18/2016		55			< 0.0056					19		10	< 0.50				137		6.2		2.4		0.0012		3.7		0.63					0.086		46.4	6.60					1.9			1.5		9.1	20.7		57	2.5	21		4.4		
11/9/2016		93			< 0.0090					18		16	1.8				154		9.1		2.6		0.00075		7.2		0.38					< 0.050		5.0	7.14					1.9			3.0		< 5.0	8.7		110	6.9	37		10.6		
5/25/2017		92	1.9		< 0.0090		0.022	< 2.0		25		< 10	1.7					0.0022	8.3		7.4		0.0021		8.2		1.2		< 0.00020			0.11		6.6	7.48					1.6			2.6		< 5.0	15.0		96	4.0	25		3.8		< 0.020
8/17/2017		67			0.067					41		160	1.2						4.7		190		0.030		9.1		30					0.093		20.3	6.96					4.7			2.3		< 5.0	19.2		96	6.1	1200		110.0		
11/17/2017		71			< 0.0090					19		< 10	2.1						8.9		7.9		0.0014		6.6		4.1					< 0.050		21.7	6.40					1.8			2.9		< 5.0	2.8		72	6.0	380	58.8			
5/2/2018		76	0.27		< 0.0090		0.0064	< 2.0		18		24	1.3					< 0.0020	5.8		1.8		< 0.00040		6.2		0.41					0.052		2.1	7.35					1.8			2.8		< 5.0	25.1		75	5.7	8.0	1.6			< 0.020
8/29/2018		100			0.039					47		49	2.7						5.3		91		0.025		11		9.1					0.14		58.8	6.14					7.8			3.1		< 5.0	23.0		180	11	890	2000			
11/15/2018		74			< 0.0090					25		18	7.3						8.9		1.8		0.00045		5.3		0.88					0.36		64.2	5.97					1.9			2.1		< 5.0	2.3		110	4.2	18	21.2			
5/15/2019		50	0.34		< 0.0090		< 0.0050	< 2.0		15		18	1.9					< 0.0020	9.3		0.83		< 0.00040		4.8		0.17					0.34		82.9	6.50					1.3			2.2		< 5.0	10.0		56	4.1	40	9.3			< 0.020
8/22/2019		140				< 9.0					39000	< 10	2.9						8.2			720		< 0.40		7100		7400					0.85		174.0	6.65						3500			2800	< 5.0	19.4		200	3.1	8.0	19.5			
11/18/2019		110				< 9.0					28000	27	3.0						13.9			15000		1.7		7300		8900					0.13		26.8	7.01						2500			3000	< 5.0	2.1		52	6.2	55	18.0			
SW-B																																																					
11/5/1998		21		< 0.02	< 0.01		0.012	< 2	< 0.005	7.4		25.4	4.4	< 5	< 0.01			< 0.025			0.47		< 0.005		1.8		0.13			< 0.2	< 0.04					< 1		1			5.4		8.2			57	6.9	4			< 0.025	0.03
12/7/1998								< 2		5.5		31.1									0.34		< 0.005		1.4		0.026											0.77			4.4					56	7.6	8.5				
4/27/1999		7.6		0.1	< 0.01		0.013	< 2	< 0.005	6.3		20.2	3.8	< 5	< 0.01		57	< 0.025			1.1		< 0.005		1.5		0.098			< 0.2	< 0.04				7.16	< 10		0.9			7.5		7	6.7		56	8.8	31.5			< 0.025	0.027
8/9/1999								< 2		7.7		26.1					105				0.61		< 0.005		2		0.16								6.67			1.1			4.3			16.1		100	10.3	< 3				
11/16/1999								2.2		4.7		25.2					40				2.4		< 0.005		1.6		0.46								6.52			0.93			3.1			3.4		45	9.7	43				
4/27/2000		< 5		< 0.02	< 0.01		0.0097	< 2	< 0.005	3.4		< 10	3.8	< 5	< 0.01		38	< 0.025			0.64		< 0.005		1		0.032			< 0.2	< 0.04				8.28	< 10		0.74			2.6		5	7.2		80	7.1	20			< 0.025	0.096
8/21/2000								< 2		11.5		15.6					144				0.85		< 0.005		2.5		0.13								7.9			1.5			5.9			15		24	8.4	< 3				
12/13/2000								< 2		7.8		17.3					76				0.34		< 0.005		1.9		0.085								8.2			1.1			4.7			1.9		577	6.2	10				
5/7/2001		15.1		< 0.02	< 0.01		0.0075	< 2	< 0.005	5.4		24.8	5.3	< 5	< 0.01		60	< 0.025			0.32		< 0.005		1.4		0.041			< 0.2	< 0.04				7.38	< 10		0.98			3.9		< 1	11.3		60	9.5	4.5			< 0.025	< 0.02
8/6/2001								< 2		16.9		< 10					129				0.68		< 0.005		3.6		0.16								8.01			3.2			8.4			16.2		63	2.4	35				
12/3/2001								< 2		6.4		25.5					67				0.38		< 0.005		1.8		0.034								7.09			0.73			3.9			5.7		82	15.1	< 3				
5/7/2002	10.2	10.2		< 0.02	< 0.01		0.016	2.1	< 0.005	5.1		35.9	5.3	< 5	< 0.01		54	< 0.025			1.3		< 0.005		1.5		0.12			< 0.2	< 0.04				8.01	< 10		0.93			3.7		8.8			68	8.3	< 3			< 0.025	< 0.02
8/12/2002										15.7		56									0.33		< 0.005		3.4		0.087								6.61			2.7			8.1					93	2.2	< 3		4.4		
12/10/2002										11.1		12.3					145				0.21		< 0.005		2.7		0.026								6.59			1.4			5.3			1.6		72	5.4	< 3		2.3		
4/28/2003	< 5	< 5		< 0.02	< 0.01		0.012	< 2	< 0.005	3.9		30.1	3.6	< 5	< 0.01		40	< 0.025			0.2		< 0.005		1.1		0.026			< 0.2	< 0.04		184		5.94			0.66			2.8		2.6	12.8		74	8.4	< 3		0.8	< 0.025	< 0.02
8/11/2003										6.7		22.6					53				1		< 0.005		1.5		0.13								6.28			0.84			3.4			21.6		78	17.3	3		6		
12/5/2003										5		< 10					45				0.28		< 0.005		1.2		0.053								6.57			0.7			3.4			0.1		30	5.8	< 3		2.5		
5/12/2004	12.7	12.7	0.46	0.13	< 0.01		0.0089	< 2	< 0.005	7		26.2	4	< 5	< 0.01		75	< 0.025			0.46		< 0.005		1.6		0.055		< 0.0002	< 0.2	< 0.04		185		6.91	< 10		1.1			3.6		< 1	21.2		45	6.2	22		4.8	< 0.025	< 0.02
8/9/2004	23.4	23.4		0.18	< 0.01					11.2		48.2	5.1				98				2.5		< 0.005		2.6		0.31								6.58			1.5			4.5		< 1	16.4		77	13.8	30		24.1		
12/7/2004	11.8	11.8		0.065	< 0.01					6.5		22.4	5.1				90				0.34		< 0.005		1.6		0.067								7.61			0.86			3.5		< 1	1		44	9.3	10		1.5		
5/4/2005								< 2																																													
5/4/2005		12.9	0.64	0.039	< 0.01		0.0097		< 0.005	4.7		20.5	4	< 5	< 0.01		43	< 0.025			0.54		< 0.005		1.2		0.04			< 0.2	< 0.04		147		5.67	< 10		0.77			3.3		< 1	9.5		54	7.3	10		4.2	< 0.025	< 0.02
8/12/2005		85.9		0.18	0.01					23.8		< 10	3.6				180				0.4		< 0.005		4.5		0.13								7.6			2.3			7.4		9.6	15.4		145	2.2	< 3		3.3		
12/22/2005		25.1		< 0.02	< 0.01					8.4		< 10	5.2				407				0.29		< 0.005		1.8		0.075								7.32			0.88			3.6		< 1	1.9		74	3.6	< 3		2.8		
5/15/2006		13.8	0.33	0.033	< 0.01		0.0073	< 2		6.4		31.1	3.9				260	< 0.025			0.26		< 0.005		1.5		0.045			< 0.2			120		6.86			0.98			3.2		< 1	14		76	7.7	< 4		2.3		< 0.02
8/30/2006		29.1		0.064	< 0.01					11.1		36.8	3.7				81				0.67		< 0.005		2.2		0.13											1.1			4		< 1	20.8		67	10.9	< 4	4.9			
12/14/2006		16		< 0.02	< 0.01					7		16.3	3.5								0.36		< 0.005		1.5		0.091											0.82			3.1		1.1	4		23	4.6	< 4	11.5			
5/11/2007								< 2																																												
5/18/2007		18.8	0.47	< 0.02	< 0.01		0.0079			5.5		20.6	3.8				53	< 0.025			0.44		< 0.005		1.3		0.047			< 0.2			184.4		5.64			0.8			2.4		1.9	6.6		24	7.2	26		4.7		< 0.02
8/16/2007		68.9		0.16	< 0.01					19.6		21.5	3.2				145				0.83		< 0.005		3.7		0.39								7.17			2			5.7		< 1	15.5		99	5.4	14		10.8		
12/5/2007		19.6		0.29	< 0.01					8.4		20	4.6				70				0.24		< 0.005		2		0.081								5.67			0.86			3.7		2.7	1.7		84	6.1	< 4		1.7		
5/1/2008		< 5	0.29	0.22	< 0.01		0.0068	< 2		3.8		< 10	3				41	< 0.025			0.21		< 0.005		0.98		0.027			< 0.2			-104		6.77			0.64			2		< 1	10.2		80	4.1	< 4		3.4		< 0.02
8/18/2008		27.7		0.1	< 0.01					10.7		34.8	6.7								1.4		< 0.005		2.2		0.16								6.14			1.2			3.8		< 1			114	11.6	14				
12/16/2008		< 5		0.074	< 0.01					3.5		12	3.5								0.4		< 0.005		1.1		0.06											0.65			2.2		< 1			35	5.4	< 4				
5/13/2009		15.7	0.321	< 0.020	< 0.0100		0.0070	< 2.0		6.8		14.5	3.3				85	< 0.0250	8.5		0.427		< 0.0050		1.74		0.0441		< 0.0002			< 0.050		154	6.90					0.999			3.8		< 1.00	15.1		77.0	9.7	< 4.0		2.0		< 0.0200
9/3/2009		62.0		0.175	0.0103					18.3		16.2	3.3				159		8.6		1.55		< 0.0050		3.53		0.380					0.104			7.09					2.19			5.3		< 1.49	16.3		98.0	6.7	41.2		6.2		
11/13/2009		27.8		0.030	< 0.0056					10.1		41.2	15.1				86		12.1		0.448		< 0.0050		2.31		0.0739					< 0.050			8.04					1.22			4.2		2.49	3.4		56.0	6.9	< 4.0		2.4		
5/6/2010		20.5	0.548	0.059	0.0058		0.0101	< 2.0		9.4		15.2	3.1				112	< 0.0250	10.1		0.624		< 0.0050		2.17		0.0694		< 0.0002			< 0.050		127	7.85					1.27			3.4		< 1.49	12.6		49.0	9.0	< 4.0		9.8		< 0.0200
8/11/2010		90.7		0.101	0.0148					24.0		< 10.0	2.9				196		4.7		0.293		< 0.0050		4.40		0.198					0.055		199	6.56					2.64			7.0		2.02	20.9		146	1.9	< 4.0		6		
11/12/2010		15.6		< 0.020	< 0.0056					6.2		22.2	3.4				62		10.4		0.744		< 0.0050		1.63		0.0445					< 0.050		141.1	7.10					0.842			2.8		< 1.49	5.6		140	5.6	< 4.0		1.8		
5/11/2011		20.6	0.42	< 0.020	< 0.0056		0.0068	< 2.0		7.1		< 10.0	3.8				78	< 0.025	11.2		0.29		< 0.0050		1.8		0.028		< 0.00020			< 0.050		186	6.42					0.96			3.2		< 1.5	12.7		43.0	6.8	< 4.0		7.6		< 0.020
8/9/2011		89.2			0.011					24.0		< 10.0	3.2				232		7.8		0.50		< 0.0050		4.4		0.19					0.082		80.1	7.25					2.7			7.1		< 1.5	18.5		101	1.6	13.6		6.8		
11/14/2011		21.3			< 0.0056					7.8		21.5	3.9				107		9.4		0.58		< 0.0050		1.9		0.055					< 0.050		162.0	6.84					1.2			3.4		1.9	11.0		103	9.3	< 4.0		5.7		
5/9/2012		11.7	0.37		< 0.0056		0.0065	< 2.0		4.4		7.5	2.8				69	< 0.025	5.6		0.36		< 0.0050		1.2		0.039		< 0.00020			< 0.050		95.0	6.14					0.74	

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Nickel	Nitrate	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Potassium	Silver	Sodium	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbidity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																						
SW-B																																																						
11/9/2012		< 10.0			< 0.0056					4.3		19.6	4.1				55		10.5		0.43		< 0.0050		1.4		0.044				0.029		201.4	6.94					0.79			2.8		< 1.5	6.1		43.0	2.8	4.4		5.7		
4/12/2013		7.3	0.51	0.036	< 0.0056		0.0068	< 2.0		4.5		17.7	3.0				49	< 0.025	13.0		0.45		0.0038		1.4		0.037		< 0.00020		0.083		99.5	4.99					0.77			2.8		< 1.5	1.7		56.0	7.0	11.6		8.5		0.0037
8/14/2013		15.3			< 0.0056					6.4		45.5	4.1				77		7.8		0.63		< 0.005		1.5		0.052				0.023		188.5	7.5					0.65			2.6		< 1.5	19.9		59	13.1	< 4		8.5		
11/11/2013		32.8			0.0059					11.1		20.0	3.6				102		9.6		0.49		< 0.0050		2.5		0.068				0.024		174.6	6.95					1.2			4.3		< 1.5	5.2		57.0	6.5	< 4.0		4.5		
5/8/2014		16.8	0.28		< 0.0056		0.0062	< 2.0		6.8		34.6	4.2				95	0.0034	12.4		0.30		< 0.0050		1.8		0.029		< 0.00020		0.041		212	6.17					0.89			3.7		< 1.5	6.6		48.0	6.0	< 4.0		0		0.0033
8/20/2014		28.9		< 0.020	< 0.0056					10.5		41.8	4.6				72		6.2		0.67		< 0.0050		2.3		0.071				0.061		95.0	6.84					1.1			4.3		< 1.5	16.4		66.0	9.1	< 4.0		0		
11/4/2014		22.4			< 0.0056					9.3		24.8	4.8				69		6.7		0.46		< 0.0050		2.4		0.056				< 0.050		141.0	6.54					1.2			4.3		< 1.5	5.6		90.0	6.3	< 4.0		0		
4/28/2015		10.8	0.28		< 0.0056		0.0054	< 2.0		5.0		25.3	4.3				45	< 0.025	9.1		0.22		< 0.0050		1.5		0.023		< 0.00020		0.026		199	6.20					0.78			3.1		< 1.5	8.1		37.0	5.7	< 4.0		12.8		0.0040
8/10/2015		77.0			0.015					22.8		19.5	3.8				160		5.0		0.60		< 0.0050		4.3		0.32				0.080		131.0	8.73					2.7			7.7		< 1.5	13.6		86.0	2.5	5.2		4.5		
11/10/2015		36			< 0.0056					12		17	5.3				60		9.2		0.39		< 0.0050		2.6		0.062				< 0.050		158.0	6.41					1.3			4.6		1.6	5.2		100	7.9	< 4.0		0		
5/17/2016		30	0.19		< 0.0056		0.0055	< 2.0		9.9		19	4.1				48	< 0.025	10.1		0.40		< 0.0050		2.4		0.045		< 0.00020		< 0.050		80.8	7.72					1.2			4.5		2.0	14.2		38	5.8	7.6		2.7		< 0.020
8/18/2016		36			< 0.0056					13		13	2.4				106		6.4		0.70		< 0.00040		2.3		0.053				0.051		36.6	7.17					1.9			3.7		4.3	20.5		58	2.6	12		17.6		
11/9/2016		35			< 0.0090					11		13	3.9				104		9.7		0.26		< 0.00040		2.7		0.030				< 0.050		31.8	7.40					1.4			4.8		< 5.0	8.5		80	8.9	< 4.0		4.7		
5/25/2017		30	0.29		< 0.0090		0.0069	< 2.0		9.9		< 10	6.3					< 0.0020	9.6		0.36		< 0.00040		2.1		0.044		< 0.00020		< 0.050		37.5	7.89					0.99			5.0		< 5.0	15.0		71	7.0	< 4.0		3.5		< 0.020
8/17/2017		68			0.010					20		< 10	3.2						7.6		0.73		0.00043		3.4		0.098				0.081		110.2	6.72					2.3			6.5		< 5.0	16.8		120	3.8	15		6.4		
11/17/2017		14			< 0.0090					6.9		< 10	5.0						9.9		0.41		0.00052		1.8		0.057				< 0.050		-29.1	6.91					0.90			3.9		< 5.0	4.8		58	10	< 4.0	1.9			
5/2/2018		18	0.30		< 0.0090		0.0073	< 2.0		6.6		23	7.1					< 0.0020	7.6		0.29		< 0.00040		1.9		0.032				0.053		145.8	5.93					0.91			5.1		< 5.0	19.5		55	6.7	< 4.0	4.2			< 0.020
8/29/2018		100			0.014					28		< 10	5.7						6.6		0.78		0.00046		4.6		0.14				0.10		81.5	6.27					2.7			7.2		< 5.0	20.6		140	2.1	4.4	14.0			
11/15/2018		18			< 0.0090					7.6		34	4.9						12.2		0.45		0.00040		1.9		0.046				0.053		40.2	6.66					0.78			3.6		< 5.0	0.6		42	11	< 4.0	3.9			
5/15/2019		14	0.29		< 0.0090		0.0065	< 2.0		5.4		31	8.5					< 0.0020	10.2		0.24		< 0.00040		1.6		0.025				< 0.050		100.7	5.79					0.57			4.3		< 5.0	8.0		38	7.7	< 4.0	2.7			< 0.020
8/22/2019		< 10				< 9.0					6300	64	5.1						11.0			1400		1.7		1900		160				0.068		72.8	7.06						830			3800	< 5.0	19.2			110	28	39	11.1			
11/18/2019		40				< 9.0					12000	22	9.8						13.3			850		0.65		2600		110				0.060		29.8	6.90						1200			5700	< 5.0	2.7			64	7.2	6.0	8.9			
SW-C																																																						
11/5/1998		< 5		< 0.02	< 0.01		0.025	< 2	< 0.005	16.4		33.8	5.8	< 5	< 0.01			< 0.025				1.1		< 0.005		1		0.15		< 0.2	< 0.04									0.73			4.8		8.4			76	14.9	17			< 0.025	0.17
12/7/1998								< 2		2.5		< 10									0.51		< 0.005		0.75		0.049												0.52			3.9					32	9.6	< 3				
4/27/1999		< 5		0.11	< 0.01		0.016	< 2	< 0.005	6.8		29.7	3.1	< 5	< 0.01		31	< 0.025			0.88		< 0.005		2.3		0.076		< 0.2	< 0.04					7.42	< 10			1.6			7.1		7	6.5		36	10.6	10.5			< 0.025	< 0.02
8/9/1999								< 2		4.4		34.3					89				0.45		< 0.005		1.4		0.13								5.88				0.44			3.4					103	14.4	< 3				
11/16/1999								11.9		0.96		40.7					27				0.2		< 0.005		0.52		0.024								5.75				< 0.79			1.4			3.5		38	18.4	< 3				
4/26/2000		< 5		< 0.02	< 0.01		0.0082	< 2	< 0.005	3		< 10	8.5	< 5	< 0.01		56	< 0.025			0.15		< 0.005		0.88		0.015		< 0.2	< 0.04					5.59	< 10			0.58			3.7		8.6	9.7		63	7.2	< 3			< 0.025	< 0.02
8/21/2000								< 2		1.7		42.2					183				1		< 0.005		0.5		0.13								5.94				0.26			3			14.9		16	17.4	9				
5/7/2001		< 5		< 0.02	< 0.01		0.0089	< 2	< 0.005	1.5		52	4.1	< 5	< 0.01		31	< 0.025			0.58		< 0.005		0.6		0.038		< 0.2	< 0.04					6.76	< 10			0.5			2.4		< 1	10.3		14	12.8	3			< 0.025	< 0.02
8/6/2001								6.3		3		103					45				5.4		0.0068		0.97		1.3								5.55				0.98			3.5			26.4		67	27.6	33				
12/3/2001								< 2		2.4		26.2					37				0.66		< 0.005		0.9		0.053								6.48				0.42			3			5.3		101	15.8	< 3				
5/7/2002	< 5	< 5		< 0.02	< 0.01		0.0093	< 2	< 0.005	1.7		31.6	4.4	< 5	< 0.01		33	< 0.025			0.51		< 0.005		0.65		0.03		< 0.2	< 0.04					8.23	< 10			0.47			2.7		7	11.1		55	9.7	13			< 0.025	< 0.02
4/28/2003	< 5	< 5		< 0.02	< 0.01		0.012	< 2	< 0.005	1.5		25.6	3.3	< 5	< 0.01		29	< 0.025			0.24		< 0.005		0.61		0.046		< 0.2	< 0.04		222			5.18				0.43			2.5		6.9	10.4		57	8.7	< 3		< 0	< 0.025	< 0.02
8/11/2003										1.9		46.2					33				0.76		< 0.005		0.52		0.078								5.69				0.18			2.7			21.4		70	20.3	< 3		1.3		
12/5/2003										1.9		20.8					32				1.1		< 0.005		0.85		0.058								6.82				0.53			3.3			0.1		33	7.1	29		3.1		
5/12/2004	< 5	< 5	0.32	< 0.02	< 0.01		0.0079	< 2	< 0.005	1.6		34.1	3.3	< 5	< 0.01		38	< 0.025			0.36		< 0.005		0.56		0.056		< 0.0002	< 0.2	< 0.04	216			5.61	< 10			0.48			2.9		< 1	20.1		24	7.7	< 3		2.5	< 0.025	< 0.02
8/9/2004	< 5	< 5		0.16	< 0.01					3.5		56.9	7.2				58				2.6		< 0.005		1.1		0.23								6.46				0.57			3.8		< 1	16.6		37	20.7	19		10.3		
5/4/2005								< 2																																														
5/4/2005		< 5	0.52	< 0.02	< 0.01		0.0091		< 0.005	0.96		34.9	2.9	< 5	< 0.01		28	< 0.025			0.36		< 0.005		0.61		0.046		< 0.2	< 0.04		262			4.65	< 10			0.57			1.7		< 1	8		26	11	5		3.8	< 0.025	< 0.02
5/15/2006		5.2	0.37	0.043	< 0.01		0.0072	< 2		1.5		26.3	3.4				386	< 0.025			0.26		< 0.005		0.55		0.034		< 0.2			148			12.4				0.51			2.4		< 1	7.4		20	9.4	< 4		1		< 0.02
8/30/2006		< 5		0.093	< 0.01					1.8		40.1	3.9				31				0.69		< 0.005		0.55		0.099												0.21			2.6		< 1	20.6		24	14.9	< 4	1.7			
12/14/2006		< 5		0.02	< 0.01					1.4		32.6	2.6								0.27		< 0.005		0.49		0.038												0.33			2.7		< 1	3.2		< 5	5	< 4	6			
5/11/2007								< 2																																													
5/18/2007		8.2	0.33	< 0.02	< 0.01		0.0059			1.2		22.4	3.1				89	< 0.025			0.29		< 0.005		0.48		0.035		< 0.2			127.4			6.13				0.36			1.8		1.5	6.2		< 5	8.7	< 4		0.7		< 0.02
8/16/2007		< 5		0.21	< 0.01					1.8		32.1	3.5				27				1		< 0.005		0.54		0.22								7.17				0.29			2.5		< 1	16		53	12	< 4		3		
5/1/2008		< 5	< 0.2	0.45	< 0.01		0.0058	< 2		1.2		21.2	3				27	< 0.025			0.12		< 0.005		0.48		0.023		< 0.2			-109			6.95				0.35			1.8		< 1	9.8		23	4.4	< 4		0.9		< 0.02
8/18/2008		< 5		0.1	< 0.01					1.9		49.1	6.6								1.1		< 0.005		0.65		0.21								5.29				0.41			3.3		< 1			79	12.8	< 4				
5/13/2009		< 5.0	0.390	< 0.020	< 0.0050		0.0062	< 2.0		1.5		27.9	3.1				29	< 0.0250	10.3		0.521		< 0.0050		0.592		0.0582		< 0.0002		< 0.050		165	7.18					0.658			2.3		1.61	13.3		53.0	11.5	< 4.0		1.3		< 0.0200
9/3/2009		< 10.0		0.325	0.0081					2.1		44.8	4.7				33		7.7		1.56		< 0.0050		0.703		0.356				0.056			6.89					0.876			3.1		< 1.49	13.1		58.0	13.8	< 4.0		4.2		
11/13/2009		< 10.0		0.025	< 0.0056					1.6		25.5	4.9				123		10.7		0.529		< 0.0050		0.639		0.0668				< 0.050			8.83					0.585			3.1		3.03	3.1		38.0	8.6	< 4.0		1.9		
5/6/2010		< 10.0	0.539	0.049	< 0.0056		0.0069	< 2.0		1.4		37.8	3.0				30	< 0.0250	10.3		0.684		< 0.0050		0.544		0.0819		< 0.0002		< 0.050		126	7.11					0.541			2.4		< 1.49	12.9		24.0	11.2	< 4.0		2.7		< 0.0200
8/11/2010		< 10.0		0.187	< 0.0056					2.3		47.9	3.8				68		5		3.23		< 0.0050		0.810		0.857				< 0.050		185	6.10					0.630			2.6		1.68	22.3		71.0	14.8	11.6		13.4		
11/12/2010		< 10.0		< 0.020	< 0.0056					1.6		31.0	3.7				31		10.1		0.322		< 0.0050		0.675		0.0446				< 0.050		205.4	5.46					0.457			2.1		< 1.49	5.6		32.0	6.0	< 4.0		0.8		
5/11/2011		< 10.0	0.31	< 0.020	< 0.0056		0.0058	4.7		1.4		24.6	2.9				29	< 0.025	10.6		0.35		< 0.0050		0.56		0.043		< 0.00020		< 0.050		199	6.58					0.44			2.2		< 1.5	12.0		25.0	7.9	< 4.0		3.5		< 0.020
8/9/2011		< 10.0			< 0.0056					2.6		48.5	3.5				45		4.5		5.2		< 0.0050		0.92		1.6				< 0.050		62.6	6.05					0.67			2.6		< 1.5	21.9		69.0	15.2	8.0		12.5		
11/14/2011		< 10.0			< 0.0056					1.6		29.5	3.6				38		7.9		0.65		< 0.0050		0.66		0.064				< 0.050		130.0	6.68					0.69			2.2		2.0	9.4		46.0	10.9	< 4.0		4.6		
5/9/2012		< 10.0	0.29		< 0.0056		0.0061	< 2.0		1.5		30.9	3.7				47	< 0.025	6.2		0.29		< 0.0050		0.58		0.030		0.00017		< 0.050		81.5	6.42					0.52			2.2		1.6	11.1		48.0	9.2	< 4.0		0.9		< 0.020
8/16/2012		< 10.0			< 0.0056					2.9		49.5	3.3				43		5.8		0.92		0.0031		1.1		0.17				0.041		57.7	5.17					0.86			2.7		< 1.5	18.4		62.0	10.1	9.6		32.9		
11/9/2012		< 10.0			< 0.0056					1.7		29.3	4.3				35		7.9		0.31		< 0.0050		0.76		0.032				< 0.050		111.6	5.80					0.57			2.2		< 1.5	5.4		41.0	3.5	< 4.0		2.2		
4/12/2013		< 10.0	0.23	0.025	< 0.0056		0.0048	< 2.0		1.3		27.8	3.5				31	< 0.025	11.5		0.19		< 0.0050		0.56		0.027		< 0.00020		0.074		85.9	5.36					0.47			2.3		< 1.5	2.3		47.0	7.6	< 4.0		4.1		0.0028
8/14/2013		< 10			< 0.0056					1.9		43.9	5				34		8.3		0.62		< 0.005		0.65		0.077				< 0.05		159.6	6.69					0.16			2.4		< 1.5	18.7		63	14.9	< 4		3.7		
11/11/2013		< 10.0			< 0.0056					1.7		27.9	4.6				34		10.1		0.39		< 0.0050		0.64		0.029				< 0.050		161.3	7.23					0.39			2.6		< 1.5	3.9		56.0	8.6	< 4.0		2.6		
5/7/2014		< 10.0	0.35		< 0.0056		0.0070	8.7		0.95		53.3	1.8				39	< 0.025	9.6		0.18		< 0.0050		0.73		0.021		< 0.00020		< 0.050		250.0	4.68					0.45			1.3		< 1.5	9.3		31.0	13.7	< 4.0		0		0.0060
8/14/2014		< 5.0		0.053	< 0.0056					2.8		77.6	2.3				33		6.2		0.51		< 0.0050		0.81		0.025				0.020		236.0	4.34					0.31			1.8		< 1.5	15.3		74.0	27.5	< 4.0		13.8		
11/4/2014		< 10.0			< 0.0056					1.8		65.4	3.4				40		4.5		0.47		0.0032		1.5		0.041				< 0.050		311.0	4.17					0.53			2.3		< 1.5	6.1		29.0	24.9	< 4.0		0.2		
4/28/2015		< 10.0	0.36		< 0.0056		0.0057	< 2.0		0.79		24.7	1.9				32	< 0.025	8.2		0.19		< 0.0050		0.67		0.020		< 0.00020		< 0.050		253	4.63					0.50			1.3		< 1.5	5.7		29.0	11.0	< 4.0		0.3		0.0048
11/10/2015		< 10			< 0.0056					3.2		40	3.8				36		11.2		0.23		< 0.0050		3.1		0.012				< 0.050		246.0	4.82					0.62			4.1		1.5	5.5		40	18	< 4.0		3.1		
5/17/2016		< 10	0.40		< 0.0056		0.0077	< 2.0		3.6		28	2.2				68	< 0.025	9.6		0.23		< 0.0050		3.3		0.015		< 0.00020		< 0.050		109.9	6.96					0.76			3.9		3.3	12.0		58	12	4.8		3.1		< 0.020
8/18/2016		< 10			< 0.0056					5.4		25	3.0				89		6.0		0.52		0.00092		1.9		0.30				< 0.050		106.7	6.67					1.3			4.4		18	20.5		52	14	16		2.3		
11/9/2016		< 10			< 0.0090					2.7		29	4.8				48		10.4		0.41		0.00058		1.1		0.089				< 0.050		129.2	6.64					0.45			3.1		< 5.0	8.3		68	14	7.6		4.0		
5/25/2017		< 10	0.62		< 0.0090		0.0089	< 2.0		2.0		14	6.3					< 0.0020	9.0		0.75		0.00096		0.75		0.10		< 0.00020		< 0.050		98.0	7.14					0.36			3.9		< 5.0	14.2		39	9.5	34		4.7		< 0.020
8/17/2017		< 10			< 0.0090					3.0		33	4.5						6.1		4.0		0.0045		1.1		0.93				< 0.050		138.5	5.98					0.67			3.4		< 5.0	18.7		75	16	33		12.8		
11/17/2017		< 10			< 0.0090					2.0		< 10	6.2						10.0		0.39		0.00043		0.83		0.055				< 0.050		18.7	5.59					0.44			3.5		< 5.0	4.4		26	12	< 4.0	0.9			
5/2/2018		< 10	0.30		< 0.0090		0.0061	< 2.0		1.6		24	8.6					< 0.0020	7.6		0.25		0.00043		0.67		0.024				< 0.050		145.8	5.89					0.44			4.2		< 5.0	19.5		30	7.4	< 4.0	3.1			< 0.020
8/29/2018		< 10			< 0.0090					4.2		58	6.7						3.2		4.9		0.0051		1.5		0.96				< 0.050		74.8	5.95					0.95			3.7		< 5.0	23.7		67	17	26	18.1			
11/15/2018		< 10			< 0.0090					2.4		50	5.6						12.4		3.5		0.0032		1.7		0.10				< 0.050		65.4	6.16					0.98			3.3		< 5.0	0.8		21	12	33	4.6			
5/15/2019		< 10	0.26		< 0.0090		0.0055	< 2.0		1.6		34	6.6					< 0.0020	10.4		0.19		< 0.00040		0.68		0.015				< 0.050		103.8	5.62					0.28			3.6		< 5.0	7.9		23	8.0	< 4.0	2.5			< 0.020
8/22/2019		< 10				< 9.0					1800	120	2.8						6.9			540		2.4		1600		34				< 0.050		219.8	5.15						230			1600	< 5.0	19.4			120	55	< 4.0	3.2			
11/18/2019		< 10				< 9.0					2100	24	10						2.4			1400		1.6		1000		65				< 0.050		-9.3	6.37						540			4900	< 5.0	1.7			69	9.1	33	11.3			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	e	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
10ABLC																																																
5/17/2007		274	< 0.2	1320	0.18	4			1390	2320	10900	< 6.7	0.024		35123	< 0.025			31	< 0.005	105	3.8			< 0.2	0.074			-69			6.79	160		1370		2810	5.2	14		22500	196	96		44.4	0.1	< 0.02
5/17/2007							110																																								
5/21/2008		410	< 0.2	336	0.061	3.6			1100	1360	15700	< 5	0.023		24770	< 0.025			56.4	< 0.005	105	3.5			< 0.2	0.044			-18			7.34	98		1160		2320	1.3	15.4		16400	108	50.8		23.3	< 0.025	< 0.02
5/14/2009		516	< 1.00	698	0.0694	3.60	62		1160	1530	8920	< 10	< 0.0200		30570	< 0.0500	3.8		48.7	< 0.0250	117	3.16	< 0.0002			< 0.0500	< 0.050			-74.5	6.68		< 25		1270		2710	1.71	16.1		18800	114	139			0.0288	< 0.0500
5/10/2010		603	0.091	122	0.0728	2.50	45		936	1520	8710	< 10	0.0160		31586	< 0.0250	4.1		29.3	< 0.0050	92.6	3.10	< 0.0002			< 0.0400	< 0.050			21.6	6.91		< 24		1030		2090	< 1.49	11		15900	74.4	74.0		21.7	< 0.0250	< 0.0200
5/10/2011		806	< 0.060	1390	0.078	2.6	64		810	1260	5920	< 50	0.013		28200	< 0.025	3.1		33.5	< 0.0050	102	3.0	< 0.00020			0.049	< 0.050			-80	6.80		80		1190		2300	< 1.5	14.6		16300	997	71.3		29.4	< 0.025	< 0.020
5/11/2012		962	0.081		0.41	1.8	61		596	1320	5950	< 50	0.025		22154	0.0060	3.8		21.1	< 0.0050	109	1.4	< 0.00020			0.069	< 0.050			120.4	6.91		< 96		864		1810	72.3	15.9		14900	125	48.0		48.8	0.018	0.0034
4/9/2013		1000	< 0.060	880	0.13	2.7	73		643	2030	9510	< 50	0.030		27949	0.0036	2.6		40.5	< 0.0050	119	1.7	< 0.00020			0.071	0.026			60.3	7.03		< 190		1300		2420	< 1.5	12.0		14200	87.4	111		81.4	0.023	0.0038
5/14/2014		986	< 0.060		0.094	2.5	55		540	750	1980	< 50	0.019		27	0.0064	7.6		30.6	0.0047	91.3	1.4	< 0.00020			0.071	< 0.050			-103.0	6.87		< 98		1460		2550	< 1.5	14.5		14200	169	72.8		8.2	0.014	0.0023
5/1/2015		1040	< 0.060		0.14	2.9	62		770	543	10900		0.021		30900	< 0.025	8.1		46.3	< 0.0050	130	1.4	< 0.00020			0.078	< 0.050			-81.0	6.82		< 100		1430		3000	< 1.5	13.9		15900	82.1	102		45.6	0.013	0.0027
5/12/2015												< 50																																				
5/20/2016		980	< 0.060		0.11	2.6	58		820	650	11000	< 50	0.023		27960	< 0.025	3.7		38	0.011	140	2.2	< 0.00020			0.12	0.71			-68.1	6.70		< 95		1600		3200	73	18.8		18000	150	94		155.0	< 0.025	< 0.020
6/1/2017		780	< 0.080		0.12	3.8	54		1100	870	14000	< 50	0.024			< 0.050	3.7		55	< 0.0050	170	3.5	< 0.0010			0.11	< 0.050			-89.7	6.60		< 500		1800		4000	52	19.1		20000	97	270		46.4	< 0.025	< 0.020
5/9/2018		730	< 0.080		0.11	4.5	54		1300	870	13000	< 10	0.023			< 0.050	3.1		56	< 0.0050	190	5.1	< 0.00020			0.11	< 0.050			-6.8	6.66		< 500		1500		3700	93	18.1		24000	90	250	68.7		< 0.025	< 0.020
6/11/2019		660	< 0.080		0.091	5.0	44		1500	920	17000	< 10	0.032			< 0.25	2.3		61	< 0.0050	210	4.3	< 0.00020			0.15	< 0.050			-85.0	6.91		< 500		2300		5100	90	16.9		28000	100	71	126		< 0.025	< 0.020
10ABLD																																															
5/18/2007		375	< 0.2	439	0.052	0.72	10		450	204	3760	< 5	< 0.01		12020	< 0.025			18	< 0.005	46.3	1.9			< 0.2	0.079			-72			6.92	< 10		537		1040	190	12.7		10800	24.7	38.5		13.1		0.15
5/21/2008		401	< 0.2	223	0.036	0.64			327	411	2640	< 5	0.03		9374	< 0.025			13.8	< 0.005	37.3	0.84			< 0.2	0.043			-7			7.04	< 10		418		782	154	14.9		5340	20.8	23.6		29.4		0.11
6/2/2009		183	0.046	13.5	0.0068	0.0643	< 2.0		59.8	< 10.0	106	< 5.0	< 0.0100		909	< 0.0250	9.2		0.825	< 0.0050	7.59	0.0770	< 0.0002			< 0.0400	0.108			14	6.87		< 10		25.2		77.6	76.2	14.4		468	< 1.0	< 4.0		2.7	< 0.0250	0.0251
5/18/2010		340	< 0.045	4.42	< 0.0056	0.0780	5.4		174	20.5	408	< 5.0	< 0.0100		2426	< 0.0250	5.5		0.442	< 0.0050	18.0	0.753	< 0.0002			< 0.0400	8.53			-126.0	6.95		< 10		80.4		213	254	16.1		1340	5.3	7.6		3.5		0.0752
5/18/2011		285	< 0.060	2.8	0.0065	0.061	< 2.0		171	< 10.0	333	< 5.0	< 0.010		2357	0.025	8.2		0.67	< 0.0050	17.7	0.13	< 0.00020			< 0.040	9.7			232	6.38		< 10		77.3		203	331	14.3		1090	< 1.0	5.2		6.2		0.034
5/10/2012		328	< 0.060		0.0081	0.19	9.5		198	49.8	587	< 5.0	0.0082		3179	0.092	5.3		1.2	0.010	22.9	0.30	< 0.00020			0.029	6.8			42.3	6.80		< 9.5		98.9		275	309	14.8		2310	6.7	< 4.0		21.0		0.72
4/12/2013		327	< 0.060	9.2	< 0.0056	0.051	6.2		148	26.5	291	< 5.0	< 0.010		2001	0.021	7.6		0.13	0.0064	18.9	0.18	< 0.00020			0.021	2.8			181.6	7.15		< 9.5		63.1		179	216	9.9		1330	4.4	< 4.0		4.3		0.070
5/12/2014		330	< 0.060		< 0.0056	0.054	< 2.0		173	113	431	< 5.0	0.0043		2360	0.014	2.7		0.12	< 0.0050	21.6	0.068	< 0.00020			0.030	6.8			64.0	7.07		< 9.4		76.7		222	325	22.7		1400	5.7	< 4.0		0		0.63
5/6/2015		215	< 0.060		< 0.0056	0.047	4.3		159	19.7	323	< 5.0	0.022		1900	0.017	9.3		0.56	0.0032	21.0	0.13	< 0.00020			0.046	8.4			46	7.39		< 9.8		66.2		197	324	15.1		1300	5.4	16.4		0		0.031
5/19/2016		210	< 0.060		< 0.0056	0.055	< 2.0		220	20	460	< 5.0	0.037		2762	0.039	5.1		0.23	0.0072	29	0.12	< 0.00020			0.046	24			158.0	6.92		< 10		89		270	440	18.9		1700	4.3	< 4.0		3.7		0.20
6/2/2017		310	< 0.080		< 0.0090	0.26	< 2.0		230	46	870	< 5.0	0.011			0.44	8.2		3.0	0.020	28	0.66	< 0.00020			0.26	6.2			82.6	6.99		< 10		110		320	240	17.4		2200	8.5	7.6		25.6		3.0
5/10/2018		260	< 0.080		< 0.0090	0.076	6.7		230	25	490	< 1.0	0.038			0.068	5.7		1.0	< 0.0050	30	0.17	< 0.00020			0.046	25			80.3	6.56		< 10		94		310	500	16.0		1800	6.5	< 4.0	8.5			0.19
6/12/2019		210	< 0.080		< 0.0090	0.13	17		450	61	2200	< 2.0	< 0.010			0.065	6.9		1.1	0.0082	61	0.85	< 0.00020			0.11	63			85.3	7.05		< 10		360		890	600	18.9		5400	15	< 4.0	6.6			0.18
10ALC																																															
8/21/1996															<																<							<							< 0			
12/11/1996									4160	3650				<	7800				31.6	0.0036	47.6	53.7									6.64			530	< 50	1760		12.7		19500	922	108	< 0			
5/14/1997		2450		397	0.0431	4.25		< 0.0044	7240	8060	3170	< 0.4	0.0173	460	1630	< 0.01		7240	11.8	0.005	31.4	19.2			< 500	0.555						6.72	52000		1220	< 0.01	3340	130	13.4		30800	2650	127	< 0		0.172	0.0117
8/21/1997									7290	10600				1000	28000				10.1	0.0129	25.7	8.88									6.51			1650	< 0.01	3320		15.2		43300	3320	97	< 0			
12/15/1997									5250	6370				100	9300				17.4	0.0108	47.3	6.88									6.35			1290	0.0262	2840		14.8		35900	1800	115	< 0			
5/5/1998		2380		606	0.101	10.2		< 0.004	6180	7180	17900	< 0.4	0.0419	<	28300	< 0.011		6180	152	< 5	94.1	23.4			< 0.099999	0.231			<			7.34	25000	0.37	1700	< 0.01	3450	79.6	11.3		35000	2050	556	< 0		0.166	0.177
5/21/1998		977	< 450		< 30				5600		1780		0.0463		42300				15		60.6	13.7							-3			6.62		0.34	1700		3560	168			37200						0.0142
5/28/1998		1160	< 1130		< 30				6000		19600		0.0547		16230				35.1		59.7	12.8							<			7.19		0.22	1580		3700	118			39900						0.0457
8/31/1998									6750	6750				<	38000				136	< 5	113	8.35									6.24	13000		2160	0.0137	4420		17.9		49800	2480	349	< 0			
12/2/1998									5830	10600				200	13210				192	< 0.005	89.7	7									7.7			2510	< 0.015	4620		16.1		40800	255	710	< 0			
4/28/1999																																	< 530														
4/28/1999		1160		797	0.048	5.4		< 0.005	4040	4650	15100	< 5	0.079	< 2	41900	< 0.025			28.3	< 0.005	84	4.4	< 0.0002			0.1	0.052				6.79		< 380		1360	< 0.015	3290	17.2	16		23600	1400	108		< 0	0.041	< 0.1
8/10/1999									6310	9920					17230				47.9	< 0.005	50.2	6.5									6.99			2320	< 0.015	4690		18.7		53600	3560	135				
8/10/1999														3000																																	
11/18/1999														< 1																																	
11/18/1999									5050	13000					44000				126	< 0.005	80.8	15.2								6.72			2630	< 0.015	5950		9.1		37200	3410	576				
4/27/2000		1110		861	0.072	3.3		0.0091	1960	858	7730	< 8	0.031	36000	21800	< 0.025			51	< 0.005	76.1	6.6			< 0.2	0.048						6.3	540		1090	< 0.015	2070	< 1	16.4		14000	323	165			0.075	< 0.02
8/15/2000									5730	7390				< 1000	10620				86.1	< 0.005	57.9	3.8									7.45			2200	< 0.015	5380		22.6		36000	2730	458				
12/13/2000									5460	3580					35600				143	< 0.005	109	8.2									7			2520	< 0.015	5390		13.4		26200	925	376				
3/5/2001														<																																	
5/17/2001		1140		1140	0.12	8.2		< 0.005	4610	93	32600	< 5	0.2	< 4	24600	< 0.025			483	0.0076	108	20.6			< 0.2	0.9						4.76	9000		1820	< 0.015	3740	63.1	19.5		33400	1460	250			0.87	0.22
8/8/2001									3880	4190				61000	10850				104	0.0096	114	8.5									5.72			1940	< 0.015	4050		21.4		30900	954	109				
12/10/2001									3270	3260				11000	4830				78.2	0.0073	96.4	5.9									6.56			1940	< 0.015	3960		11.7		24000	539	272				
5/9/2002	870	870		812	0.086	5		< 0.005	1900	1790	10200	< 5	0.018	20000	29718	< 0.025			44.8	< 0.005	82.7	4.7			< 0.2	0.077						6.93	730		1050	< 0.015	2360	11	15		4220	335	75			0.21	< 0.02
8/13/2002									2600	2660				90					101	0.0062	156	6.8									6.36			1600	< 0.015	3550				25100	38.6	296	10.9			
12/9/2002									2870	3800				1300	42946				57	0.096	110	4.3									6.59			1520	< 0.015	3340		7.1		21600	449	624	54.4			
4/30/2003		689		657	0.11	4.8		< 0.005	2040	1750	9820	< 5	0.014	3200	25522	< 0.025			20.3	< 0.005	88.3	5.5			< 0.2	0.064			136			6.44	980		1160	< 0.015	2500	< 1	<		17700	188	280	< 0	0.25	< 0.02	
8/11/2003									2180	2450				< 10	8000				36.1	0.022	107	6.5									6.87			1290	< 0.015	2770		18.9		19000	42.6	156	193			
12/16/2003									3330	3530				16000	37800				38.4	< 0.005	99.6	5.8									6.62			1830	< 0.015	4000		11.6		23000	18.2	380	35.4			
5/14/2004	88.3	88.3	< 0.2	1680	0.17	9.9	530	< 0.005	3430	3030	17200	< 5.3	0.038		49792	< 0.025			49.5	< 0.005	138	7.4	< 0.0002		< 0.2	0.1			-80			6.61	1200		2090		4560	8.7	14.3		36200	19.8	28		46.4	0.58	< 0.02
8/12/2004	32	32		1660	0.14				3810	4620	18800				52606				82.4	< 0.005	146	7.6									6.54			2380		5270	12.5	19.8		30300	522	52		30.1		
12/6/2004	483	483		1060	0.16				3380	6950	16800				54200				41.7	< 0.005	146	6.5									6.87			2030		4580	21.4	13		37100	267	152	31			
5/18/2005							430																																								
5/18/2005		265	< 0.2	1200	0.11	4		< 0.005	1300	2600	12500	< 5.3	0.02		35720	< 0.025			45.1	< 0.005	62.6	3.2			< 0.2	0.061			-123			6.44	< 10		962		1970	6.9	15.7		24500	365	29		62.2	0.27	< 0.02
8/17/2005		806		1200	0.14				2640	2840	16600				40285				65.1	< 0.005	120	5.5									5.24			1660		3950	27.5	18.3		28400	380	112	188			
12/19/2005		581		1530	0.18				2330	3440	13600				23700				35.5	0.11	113	4.8									6.91			1560		3320	18.5	14		21200	223	255	65.7			
5/11/2006		583	< 0.2	964	0.16	6	110	< 0.005	2250	4440	6850	< 5	0.029		36230	< 0.025			45	< 0.005	181	7.2			< 0.2	0.058			-110			6.39	140		1590		3420	19.8	15.7		26200	116	106	61.6	0.13	< 0.02	

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperatur e,	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
10ALD																																																
8/21/1996															<																	<								<				< 0			
12/2/1996															<																	<								<				< 0			
5/5/1997															<																	<								<				< 0			
8/8/1997															<																	<								<				< 0			
11/24/1997									62	17					450				0.179	< 0.001	5.71	0.0421										7.62			9.35		242		11.8		1040	3.4	< 3	< 0			
3/12/1998		603		419	0.0505	1.85		< 0.004	3430	4350	9380	< 0.4	0.0265	<	19600	0.0203		3430	1.28	< 5	42.3	1.31			0.14	0.191						7.87	6100		945	< 0.01	2100	192	9		14600	1460	42			0.118	0.03
5/5/1998		368		< 0.02	< 0.003	0.048		< 0.004	65.5	12	9.9	< 0.4	0.0678		1286	0.0973		65.5	1.74	0.0018	6.71	0.0297			< 0.099999	< 0.018999						6.71			10.3		284	397	14.1		1040	3	< 3	< 0		< 0.007	0.0515
8/21/1998									95.2	43					1417				0.411	0.0031	7.66	0.338										7.15	10		12.6		289		15.5		1070	4.8	3	< 0			
12/2/1998									112	12.6					1093				0.9	0.0092	8.1	0.46										7.2			12.1		189		12.5		551	2.6	16	< 0			
5/7/1999		369		0.038	< 0.005	0.037		< 0.005	60.4	< 10	8.8	< 5	< 0.01		633	0.045			0.32	< 0.005	6.2	0.081			< 0.2	< 0.04						7.28	< 10		10.5		283	314	13.8		917	3	< 3	< 0		< 0.025	0.032
8/10/1999									71.7	< 10					946				0.26	< 0.005	7.6	0.046										7.29			12.7		346		17.4		1020	4.1	5				
11/17/1999									76.4	< 10					1118				0.32	< 0.005	7.1	0.18									7.1				11.5		182		12.3		760	2	4.5				
4/26/2000		358		0.08	< 0.005	0.037		< 0.005	66.4	< 10	7.7	< 5	< 0.01		1095	0.035			0.2	< 0.005	6.8	0.095			< 0.2	< 0.04						7.12	< 10		11.5		234	283	13.8		854	1.7	< 3			< 0.025	< 0.02
8/14/2000									70.5	< 10					1755				0.25	< 0.005	7.5	0.044										7.22			10.8		251		17.2		935	2.6	< 3				
12/13/2000									61.9	< 10					1098				1.8	< 0.005	6.9	0.037										7.9			11.4		215		11.7		819	16.6	9				
5/14/2001		350		7	< 0.005	0.087		< 0.005	79.4	< 10	119	< 5	< 0.01		1277	< 0.025			0.84	< 0.005	7.6	0.08			< 0.2	< 0.04						6.9	< 10		23		227	298	<		958	4.6	4.5			< 0.025	0.065
8/7/2001									66.4	< 10					1098				0.16	< 0.005	8.1	0.05										7.31			11.7		216		21.6		750	3.2	< 3				
12/4/2001									57	< 10					1192				1	< 0.005	7.4	< 0.01										7.98			9.5		209		13.5		829	5.3	< 3				
5/8/2002	335	335		0.1	< 0.005	0.029		< 0.005	56.3	< 10	7.1	< 5	< 0.01		1174	< 0.025			0.36	< 0.005	7.1	< 0.01			< 0.2	< 0.04						7.18	< 10		9.1		202	300	15.5		763	2.4	< 3			< 0.025	0.022
8/12/2002									67.6	< 10									4.6	< 0.005	8.4	0.17										6.85			11.8		247				774	2.2	< 3		1.6		
12/10/2002									61	< 10					1110				0.37	< 0.005	8.4	< 0.01										7.64			9.2		204		11.2		799	1.9	< 3		1		
4/29/2003		260		0.078	< 0.005	0.029		< 0.005	55.5	< 10	6.3	< 5	0.014		1117	< 0.025			0.61	< 0.005	7.7	< 0.01			< 0.2	< 0.04		24				7.07	< 10		5		104	292	16.3		792	1.7	< 3		0.6	< 0.025	0.032
8/12/2003									70.6	< 10					1402				0.9	< 0.005	9.3	0.04										7.15			10		219		22.3		746	1.4	9		4.4		
12/19/2003									70	< 10					1149				2.4	< 0.005	9	0.11										7.07			10		221		13.1		822	1.6	7		2.7		
5/13/2004	363	363	< 0.2	0.078	< 0.005	0.035	< 2	< 0.005	71.5	10.8	6.8	< 5	< 0.01		1287	< 0.025			0.43	< 0.005	9.8	0.013	< 0.0002		< 0.2	< 0.04		120				7.36	< 10		9.9		209	303	16.7		736	< 1	< 3		1.1	< 0.025	< 0.02
8/11/2004	259	259		0.094	< 0.01				68.5	< 10	5.9				1072				0.39	< 0.005	7.6	0.1										7.36			7.8		123	329	18.9		626	1.6	3		5		
12/3/2004	389	389		0.045	< 0.01				72.8	< 10	6.2				1310				1.7	< 0.005	8.3	0.054										8.19			8.5		157	206	13.5		642	1.3	< 3		1.8		
5/18/2005		340	< 0.2	102	< 0.005	0.49	10	< 0.005	314	122	1560	< 5	< 0.01		3776	0.11			0.22	0.0061	20.7	0.52			< 0.2	< 0.04		-118.4				7.18	< 10		173		469	171	14.4		5850	12.1	7		9.9	< 0.025	2
8/18/2005		304		0.37	< 0.01				94.6	13.3	8.6				7450				4	< 0.005	9.2	0.058										5.74			9.7		120	183	20.5		652	1.9	52		21.5		
12/19/2005		329		0.17	< 0.01				82.7	26.9	7.5				722				0.72	< 0.005	8.3	0.051										7.87			9.8		108	139	10.8		561	1.7	6		2.9		
5/12/2006							< 2																																									
5/12/2006		269	< 0.2	0.19	< 0.005	0.054			119	< 10	6.5	< 5	< 0.01		1118	< 0.025			6.7	< 0.005	10.4	0.27			< 0.2	< 0.04		40				7.26	< 10		10.8		123	181	14.2		651	< 1	< 4		3.5		0.12
10ARUN																																															
3/12/1998		1520		25.4	0.0917	2.03		0.0691	4170	8460	6710	< 0.4	0.277	<	14160	9.86		4170	7.92	1.46	10.2	0.883			16.7	0.626						11.81	23000		1020	0.0182	1500	913	-0.9		10400	1890	7720			0.207	4.14
5/5/1998		578			0.0491				3030		8440				19390				7.88		73.8	3.04						<				7.2		1.35	550		1770	1000			17300						0.382
10BLC																																															
2/28/1996		3290		551	< 17.5	2.32	7100	< 0.0044	3940	10600	9770		0.0227	<	12230	0.761		3940	27	0.0047	19.9	49.9			0.22	1.34		-309				6.98		0.69		0.0141	1440	423	5		20400	3010	54	< 0		0.116	0.0566
5/14/1996		496		705	0.03	1.71	7060	0.0076	5390	14700	11500	0.4	0.0333	4400	22700	0.563		5390	14.5	0.0031	14.8	23.1			0.29	1.99		<				8.82	21000	3.58		< 0.01	1690	421	8		30800	5060	222	< 0		0.0829	0.236
8/21/1996									5590	14700				<	18730				34.5	< 5	28.6	18.5										8.02			1720	0.0142	2470		15		36200	5600	62	< 0			
12/11/1996									3510	7530				<	9750				24.1	0.0042	61.8	22.7										6.76			1380	< 50	2370		12.2		19200	2360	127	< 0			
5/14/1997		2100		651	0.0602	3.41		< 0.0044	3540	5370	9400	< 0.8	0.0122	170	1640	< 0.01		3540	63.5	0.004	46.1	9.87			0.081	0.115						6.52	16000		1240	< 0.01	2280	< 7	14		17800	1610	174	< 0		0.0942	0.0143
8/21/1997									3220	14600				450	39300				82.4	0.0061	40.9	5.52										9.03			1470	< 0.01	2450		14.9		22300	1680	230	< 0			
12/15/1997									2940	3360				<	7000				62.6	0.0051	38.7	8.11										6.15			1100	0.0138	2000		11.7		24300	966	152	< 0			
4/23/1998		3380		737	0.0562	2.61		0.0041	5280	8200	15800	< 0.699999	0.0808	<	36200	0.183		5280	8.29	0.0222	52.6	2.72			< 0.099999	0.411						6.01	30000		1180	< 0.01	2870	243	14.6		27500	2680	124	< 0		0.181	0.0829
5/27/1998		1340	< 900		< 30				3310		51800		0.0106		34100				75		51.9	9.63						<				6.6		0.26	1380		2400	674			24400						0.0131
8/31/1998									4680	9720				<	23100				65.6	< 5	56.5	6.36										6.47	11000		2750	0.0165	3970		16		37100	3000	159	< 0			
12/2/1998									4770	8400				200	11000				45.2	< 0.005	45.4	5.9										6.35			3000	< 0.015	4100		14.5		43200	2740	350	< 0			
4/28/1999		1440		926	0.074	6.6		< 0.005	3270	150	14200	< 5	0.021	< 2	38600	< 0.025			94.6	< 0.005	70.3	6.3	< 0.0002			0.074	0.14				6.46		2900		1950	< 0.015	3270	< 2	13.9		22800	1250	397		< 0	0.036	< 0.1
8/10/1999									3680	10500					15880				102	< 0.005	53.6	3.9										6.58			2490	< 0.015	3750		19.1		44800	3180	133				
8/10/1999														5																																	
11/18/1999														< 1																																	
11/18/1999									2490	2710					36700				78.8	< 0.005	80.8	2.8								6.68			2160	< 0.015	3430		9.5		26300	84.3	67.3				
4/27/2000		1030		1000	0.093	3.2		0.01	1480	812	8520	< 8	0.021	< 5	23500	< 0.025			59.1	< 0.005	63.6	5.1			< 0.2	0.049						6.66	< 20		1550	< 0.015	2150	< 1	13.1		4020	244	212			< 0.025	< 0.02
8/15/2000									2420	2590				< 100	10570				106	< 0.005	82.2	2.5									7.3			1780	< 0.015	3890		23.1		25100	394	503				
12/13/2000									3580	2370					33900				264	0.01	93.6	11										6.93			3480	< 0.015	5380		12		15900	856	726				
3/5/2001														<																																	
5/14/2001		743		1600	0.094	5.3		< 0.005	1670	5520	13400	< 5	0.016	64	27600	< 0.025			156	< 0.005	78.5	5.6			< 0.2	0.095						6.59	520		2060	< 0.015	3110	< 1	17.9		20400	378	149			< 0.025	< 0.02
8/8/2001									2060	2890				930	10850				151	< 0.0058	95.4	5.7									5.56			2880	< 0.015	4040		21.4		23600	332	351				
12/10/2001									2180	3700				200	5680				120	0.0083	102	5.5									6.56			2770	< 0.015	4170		11.8		21900	265	351				
5/9/2002	509	509		838	0.17	1.6		< 0.005	1420	1380	8380	< 5	< 0.01	< 4	29820	< 0.025			117	0.0069	105	5.9			< 0.2	0.067						6.82	< 19		1200	< 0.015	2170	396	12.7		13200	111	276			< 0.025	< 0.02
8/13/2002									2360	1970				< 10					126	0.0059	140	4.3										6.5			2140	< 0.015	4080				15900	24.4	1100		29.8		
12/9/2002									1740	1730				< 2	32424				91.7	< 0.005	129	4.8										6.53			1560	< 0.015	2720		10.7		14700	45.9	352		12.8		
4/30/2003		474		736	0.13	2		< 0.005	1080	1500	8450	< 5	< 0.01	58	21209	< 0.025			98.8	< 0.005	90.5	5.2			< 0.2	0.089		117				6.33	< 43		1140	< 0.015	1960	207	<		14900	7.6	280		< 0	< 0.025	< 0.02
8/11/2003									1260	1820				< 10	9410				106	< 0.005	126	4.2										7.06			1360	< 0.015	2510		16.2		15900	13	224		68.8		
12/16/2003									1870	2720				< 3	39422				106	< 0.005	121	4.7										6.48			2300	< 0.015	4030		11.5		20000	11.7	170		16.5		
5/14/2004	848	848	< 0.2	2340	0.057	6.2	88	< 0.005	1750	2830	20900	< 5	0.014		45742	< 0.025			127	< 0.005	128	4.6	< 0.0002		< 0.2	0.067		-67				6.63	< 10		2400		4030	< 1	14		27100	16.3	197		15.9	< 0.025	< 0.02
8/12/2004	671	671		2710	0.087				1900	2330	17800				53210				181	< 0.005	127	4										6.54			2890		4860	9.7	18.6		27200	89.9	125		52.7		
12/6/2004	818	818		1530	0.15				1300	2990	15300				49900				109	< 0.005	106	3.2										7.01			1960		3300	5.6	12.8		26300	84.8	262		141		
5/18/2005							46																																								
5/18/2005		85	< 0.2	1090	0.069	2.9		< 0.005	976	1670	8590	< 5	< 0.01		27400	< 0.025			53.4	< 0.005	77	3.1			< 0.2	0.049		-73.3				6.54	< 10		1320		2080	3	13.5		16700	62.8	87		7.9	< 0.025	< 0.02
8/17/2005		85		1490	0.047				1180	1750	11400				33694				76.3	< 0.005	86.5	3.6										5.43			1540		2750	2.5	17.8		19400	51	236		8.8		
12/19/2005		297		1600	0.06				1570	2020	14500				23300				90.4	< 0.005	124	3.5										6.97			2140		3600	< 1	10.1		19800	38	119		13.9		
5/11/2006		83.1	< 0.2	1300	0.05	4.3	52	< 0.005	1480	2420	6400	< 5	0.011		35840	< 0.025			71.8	< 0.005	125	3.8			< 0.2	0.061		-74				6.5	< 10		2040		3360	8.5	14.2		13600	124	139		10	< 0.025	< 0.02

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
10BLD																																																
2/28/1996				0.64			6		65.4	7	10.7			<	345			65.4	0.0661	< 0.0009	5.45	0.0487										8.05		< 0.2			17.7	80.4	6.6		265	4.5	< 3	< 0			
5/23/1996				< 0.02			< 3		68	8	1.7	< 0.4	< 0.0034	160	487			68	< 0.029999	< 0.0009	6.06	0.058										7.07	< 2	< 0.2			35.4	78	11		321	1.6	< 3	< 0			
8/21/1996									74.9	10					1000				0.0787	< 0.001	6.18	0.0157										8.4			8.23		50.1		13.6		383	1.7	< 3	< 0			
12/2/1996									90	< 7					592				0.296	< 0.001	9.01	0.0145										7.83			8.52		48		11.5		422	1.6	< 3	< 0			
5/5/1997		373		1.17	0.0048	0.0725		< 0.0044	132	< 7	43.7	< 0.4	< 0.004		870	0.0223		132	0.189	< 0.001	13.2	0.334			< 0.049999	< 0.018999						6.99	180		29.6		88.3	109	8.1		632	3.6	< 3	< 0		< 0.007	0.0152
9/3/1997									137	19					927				5.85	< 0.001	16.9	1.06										7.08			19		88.3		16.5		736	4.3	7	< 0			
11/24/1997									114	< 7					880				0.717	< 0.001	16.6	0.142										7.42			18		61.6		10.6		672	2.4	4	< 0			
4/23/1998		437		1.87	0.0133	0.0519		< 0.004	178	14	58.6	< 0.4	< 0.004		1087	< 0.011		178	2.85	0.002	21.7	0.385			< 0.099999	0.0227						6.47			22.4		108	190	12.3		883	7.4	8	< 0		< 0.007	0.0242
8/21/1998									176	10					1227				1.87	0.001	21.4	0.43										7.27	< 1		22.5		121		15.2		900	3.3	3	< 0			
12/2/1998									140	13.2					881				0.98	0.013	20.9	0.066										7.51			18.5		89.6		13.4		733	2.1	< 3	< 0			
5/7/1999		412		0.14	0.023	0.047		< 0.005	158	< 10	17.8	< 5	< 0.01		524	< 0.025			2.9	< 0.005	21.5	0.25			< 0.2	< 0.04						7.14	< 10		16.8		79	212	14.6		752	3.5	< 3	< 0		< 0.025	< 0.02
8/10/1999									216	< 10					691				4.5	< 0.005	25.2	0.22										6.93			42.7		116		18.3		812	4	4				
11/17/1999									165	< 10					1059				0.83	< 0.005	23	0.062								7.3					24.2		71.9		11.8		751	2.8	< 3				
4/26/2000		367		0.04	< 0.005	0.045		< 0.005	170	< 10	5.8	< 5	< 0.01		1030	< 0.025			0.15	< 0.005	23.9	< 0.01			< 0.2	< 0.04						6.93	< 10		17.6		62.1	241	13.7		803	2.2	< 3			< 0.025	< 0.02
8/14/2000									1390	107					1574				86.5	< 0.005	65.5	3.2										6.85			1940		2800		17.6		23500	146	285				
12/13/2000									1420	1040					12230				137	< 0.005	34.3	6.5										6.73			791		1180		10.1		7770	143	181				
5/14/2001		294		3.5	0.0076	0.06		< 0.005	193	17.5	39.5	< 5	< 0.01		1055	< 0.025			1.4	< 0.005	26.3	0.056			< 0.2	< 0.04						6.53	< 10		22.5		60	347	<		944	5.4	6.5			< 0.025	0.02
8/7/2001									212	< 10					942				0.27	< 0.005	29.2	0.012										7.12			19.3		59.1		20		928	4	3				
12/4/2001									186	< 10					1180				1.1	< 0.005	27.1	0.036										7.31			15.2		56.4		13.8		941	6.9	< 3				
5/8/2002	296	296		< 0.02	< 0.005	0.044		< 0.005	190	19	4.9	< 5	< 0.01		1290	< 0.025			0.094	< 0.005	26.6	< 0.01			< 0.2	< 0.04						7.09	< 10		15.8		59.9	449	15.3		904	2.7	< 3			< 0.025	< 0.02
8/12/2002									202	< 10									0.2	< 0.005	27.9	0.026										6.57			15.7		61.2				968	3.2	< 3		< 0		
12/10/2002									218	< 10					1269				0.16	< 0.005	31.7	0.017										7.07			18.2		68.2		10.7		961	2.4	< 3		0.6		
4/29/2003		226		< 0.02	< 0.005	0.042		< 0.005	184	< 10	7.4	< 5	< 0.01		1213	< 0.025			0.22	< 0.005	27.1	< 0.01			< 0.2	< 0.04		4				6.86	< 10		15.2		72.5	428	16.1		972	2.3	< 3		< 0	< 0.025	< 0.02
8/12/2003									213	< 10					1296				< 0.033	< 0.005	28.5	< 0.01										6.93			15.9		79.7		17.6		1090	2.5	10		0.2		
12/19/2003									179	< 10					1049				0.11	< 0.005	25.6	0.057										6.8			15.2		76.3		14.5		876	2.3	10		2		
5/13/2004	353	353	< 0.2	< 0.02	< 0.005	0.042	< 2	< 0.005	201	11.8	4.5	< 5	< 0.01		1369	< 0.025			0.19	< 0.005	30	0.16	< 0.0002		< 0.2	< 0.04		152				6.95	< 10		16.4		82	385	14		929	1.1	< 3		1.3	< 0.025	< 0.02
8/11/2004	114	114		0.085	< 0.01				198	< 10	5.5				1408				0.5	< 0.005	26.5	0.21										6.87			14.9		86.8	390	16.9		963	3	5		4.7		
12/3/2004	226	226		0.22	< 0.01				174	< 10	5.6				1250				0.16	< 0.005	25.4	0.22										7.62			14.8		83.1	282	12		853	2.3	< 3		11.9		
5/18/2005		333	< 0.2	0.11	< 0.005	0.038	< 2	< 0.005	198	< 10	6.1	< 5	< 0.01		1874	< 0.025			0.16	< 0.005	26.7	0.14			< 0.2	< 0.04		-49.7				6.91	< 10		14.8		82.4	268	13.4		985	3	< 3		5.5	< 0.025	< 0.02
8/18/2005		378		0.18	< 0.01				191	< 10	5.3				2074				0.16	< 0.005	24.3	0.39										6.36			13.4		71.7	344	16		885	2.8	< 3		3.8		
12/19/2005		372		902	0.051				889	808	3980				11230				46.3	< 0.005	74.8	1.9										7.22			1100		1920	245	8.6		5910	23.7	47		7.5		
5/12/2006							< 2																																								
5/12/2006		364	< 0.2	15.7	0.013	0.091			256	29.4	185	< 5	< 0.01		2657	< 0.025			2.5	< 0.005	29.7	0.85			< 0.2	< 0.04		24				6.69	< 10		48.8		143	464	13.6		1440	3.6	< 4		12.9		< 0.02
10LC																																															
1/11/1996		4630		653	< 35	3.11	3410	0.0088	5610	15700	12100		0.0284	80000	11380	2.29		5610	3.39	< 0.0009	79	35.9			0.5	2.05		-272				7.76		5.8		< 0.01	1780	365	5.5		28900	5050	167	< 0		0.122	0.273
10LD																																															
1/11/1996		118		< 0.02			< 2		49.6	< 7	3.2			280	245			49.6	0.0393	< 0.0009	4.45	0.0301										8.42		< 0.2			18	50.2	9.4		218	1.5	< 3	< 0			
11ABCLC																																															
5/17/2007		4410	< 0.2	1980	0.3	0.9	100		107	2260	6690	< 17	0.13		29070	< 0.025			3.8	< 0.005	191	0.66			< 0.2	0.17		71				7.32	< 10		1120		2510	1.2	17.4		10900	415	< 4		19	0.058	< 0.02
9/8/2009		4820		1160	0.267	1.03			136	2590	898	< 10	0.155		35980	< 0.0250	4.8		11.7	< 0.0050	268	0.556	< 0.0002			0.209	< 0.050				7.42			1240		3020	< 1.49	25.4		16300	511	4.8		65.0	0.0662	< 0.0200
11/12/2009		5710	0.082	1420	0.191	0.960			116	3050	8260	< 10	0.144		33830	< 0.0250	2.7		6.39	< 0.0050	259	0.511	< 0.0002			0.186	< 0.050		191.4	7.55				1360		3200	4.05	19.6		11200	502	5.2		27.1	0.0710	0.0232
5/10/2010		5150	0.153	1720	0.288	0.970	110		108	634	9110	< 10	0.154		44130	< 0.0250	3.7		3.03	< 0.0050	245	0.435	< 0.0002			0.179	< 0.050		63.5	7.27		< 25		1300		3140	< 1.49	14.9		13400	462	< 4.0		13.5	0.0756	< 0.0200
5/10/2011		4800	0.13	209	0.38	0.89	60		101	3490	6940	< 50	0.17		35980	< 0.025	3.2		3.3	< 0.0050	247	0.61	< 0.00020			0.22	< 0.050		-9	7.47		< 9.6		1340		3130	< 1.5	18.6		13400	575	< 4.0		11.0	0.079	< 0.020
5/11/2012		6150	0.12		0.33	0.90	91		94.2	8980	3040	< 50	0.17		36879	0.0054	2.9		3.5	< 0.0050	231	0.47	< 0.00020			0.22	< 0.050		25.3	7.60		< 48		1310		3300	< 1.5	19.1		12500	521	< 4.0		13.1	0.077	0.0061
4/9/2013		5510	< 0.060	1770	0.34	0.66	110		88.2	3830	7730	< 50	0.14		33602	0.012	4.4		5.9	< 0.0050	200	0.52	< 0.00020			0.20	< 0.050		54.0	7.63		< 47		1170		2770	5.7	13.8		12000	535	< 4.0		255.0	0.058	0.010
5/14/2014		4590	< 0.060		0.30	0.73	89		92.8	1650	8430	< 50	0.13		31.1	0.012	2.7		7.9	< 0.0050	179	0.56	< 0.00020			0.19	< 0.050		-2.0	7.46		< 48		1370		2730	< 1.5	18.3		12200	464	6.0		40.4	0.047	0.0063
5/6/2015		5270	0.079		0.37	0.74	84		88.6	1470	8160	< 100	0.15		28200	0.0055	6.6		7.2	0.0036	199	0.51	< 0.00020			0.22	0.043		5	7.67		< 47		1150		3030	< 1.5	19.6		11000	447	< 4.0		18.5	0.076	0.010
5/20/2016		5600	0.092		0.38	0.71	120		110	1300	8600	< 100	0.16		29681	< 0.025	1.7		5.9	0.0055	210	0.69	< 0.00020			0.22	< 0.050		37.9	7.38		< 52		1200		3000	4.4	21.1		12000	420	23		29.6	0.077	< 0.020
6/1/2017		4400	< 0.080		0.29	0.54	110		94	1400	8600	< 100	0.13			< 0.025	2.2		7.4	< 0.0050	170	0.79	< 0.0010			0.23	7.4		55.5	7.51		< 250		1100		3000	< 5.0	20.4		13000	370	14		25.5	0.060	< 0.020
8/31/2017		5400	0.13		0.29	0.54		< 0.0050	120	1100	7900	< 25	0.13			< 0.025	1.3		6.1	0.0051	200	1.1	< 0.00020			0.23	0.62		28.3	7.48				1100		2900	< 5.0	21.5		14000	350	5.6		19.0	0.057	< 0.020
11/16/2017		5200	< 2.5		0.23	0.47		< 0.0050	99	970	8100	< 100	0.15			< 0.025	4.2		4.2	< 0.0050	180	1.0	< 0.00020			0.24	7.7		16.8	7.47				1100		3000	340	13.6		16000	400	6.8	16.9		0.049	< 0.020
6/11/2019		4200	0.092		0.29	0.52	61		180	980	7900	< 20	0.15			< 0.025	2.6		9.3	< 0.0050	210	4.5	< 0.00020			0.30	54		-25.1	7.69		< 250		1200		3200	310	19.3		12000	330	28	56.0		0.051	0.026
11ABCLD																																															
5/18/2007		572	< 0.2	36.5	0.028	0.085	2.2		97.2	21.7	152	< 5	< 0.01		1651	0.19			2.9	0.015	12.7	2.5			< 0.2	< 0.04		-23				7.13	< 10		33		165	102	19.1		763	10	33		11		0.22
9/8/2009		618		< 0.020	0.134	0.0702			121	16.9	42.0	< 5.0	< 0.0100		1581	< 0.0250	4.6		12.4	< 0.0050	11.9	3.11	< 0.0002			< 0.0400	0.657		132	6.92				12.3		214	243	24.5		902	6.4	16.4		98.6	< 0.0250	0.0289
11/12/2009		657	0.042	0.996	0.126	0.0654			115	< 10.0	33.1	< 5.0	< 0.0100		1586	< 0.0250	4.4		12.9	< 0.0050	11.8	2.86	< 0.0002			< 0.0400	0.626		82.3	7.22				11.6		206	226	18.7		911	5.4	12.4				0.0796
5/18/2010		994	0.309	140	0.128	0.142	12		124	< 10.0	770	< 20	0.0125		46780	0.712	4.8		13.4	0.0229	33.7	1.58	< 0.0002			< 0.0400	1.56		-101.9	7.13		< 10		126		450	296	20.6		1950	7.6	63.9		129		0.503
5/9/2011		465	0.13	2.9	0.027	0.051	< 2.0		128	< 10.0	40.5	< 50	< 0.010		1526	0.32	6.3		2.1	0.031	13.9	0.21	< 0.00020			< 0.040	2.6		245	7.27		< 9.4		14.7		196	369	18.6		988	3.1	8.0		18.9		0.65
8/17/2012		677	0.071		0.029	0.098	6.3		165	225	221	< 50	0.0035		3098	0.29	4.8		2.6	0.019	23.7	1.1	< 0.00020			0.031	0.76		56.2	6.90		< 47		43.9		416	657	22.1		1950	12.9	4.8		31.9	0.0049	1.9
4/12/2013		683	0.15	78.8	0.031	0.089	20		173	93.8	479	< 25	0.0075		4144	3.0	6.2		4.0	0.040	30.7	0.71	< 0.00020			0.021	11.7		217.8	7.22		< 48		75.4		539	788	12.2		2510	25.1	14.8		37.4		1.5
5/12/2014		572	0.19		0.017	0.047	< 2.0		126	20.8	117	< 5.0	0.0024		2560	0.13	4.9		4.6	0.015	18.6	0.63	< 0.00020			0.0088	3.0		62.0	7.15		< 46		21.8		417	776	25.8		1730	6.2	16.8		22.1		0.21
5/6/2015		484	0.068		0.0094	0.029	2.5		106	12.2	65.4	< 5.0	< 0.010		1870	0.025	4.2		2.6	< 0.0050	15.3	0.37	< 0.00020			0.0046	2.5		50.0	7.35		< 48		13.8		337	527	17.9		1390	3.7	6.4		7.3		0.044
5/19/2016		600	0.16		0.0062	0.046	< 2.0		120	49	310	< 25	< 0.010		2804	0.56	6.4		0.62	0.0096	22	0.15	< 0.00020			0.049	4.1		154.0	7.28		< 52		52		380	540	18.6		1600	15	< 4.0		7.6		1.3
6/2/2017		740	0.13		0.026	0.071	4.0		130	82	450	< 25	0.057			2.4	10.5		7.3	0.014	26	1.0	< 0.00020			0.077	6.6		50.7	7.33		< 500		78		480	630	18.1		2000	24	32		70.5		3.4
6/12/2019		370	< 0.080		0.014	0.036	11		88	39	33	< 1.0	< 0.010			0.24	6.2		1.6	0.042	11	0.89	< 0.00020			< 0.040	5.2		93.1	7.39		< 10		12		210	320	21.0		1000	4.1	7.6	14.8			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																															
11ALC																																															
12/8/1998			< 0.05						825	1310				200	2400				0.83	0.0054	41	24.8									5.77			206	< 0.015	340		3	< 0.002	5080	410	12	< 0			
4/28/1999		2650	0.46	0.16	0.074	3.1		0.0061	4480	11600	15200	< 5	0.15	< 10	31700	0.31			238	0.036	145	107	< 0.0002			0.75	< 0.05				6.25		< 200		1850	< 0.015	3190	595	14	< 0.002	17200	4020	184		< 0	0.12	0.19
8/10/1999			0.24						3470	10800					4310				190	0.015	125	69.1									6.18			1670	< 0.015	1920		21.8	< 0.016	24800	5940	139				
8/10/1999														3000																																	
11/18/1999														9000																																	
11/18/1999			0.26						4310	6820					36700				331	0.0085	246	50.6								6.47				2110	< 0.015	2490		11.3	< 0.002	32100	4700	445				
4/27/2000		2860	0.23	1720	0.048	3.5		< 0.005	1350	4300	10900	< 16	0.052	< 5	21800	0.033			169	< 0.005	187	12.5			< 0.2	0.099					6.58	320		1180	< 0.015	1450	12	17.4	< 0.002	13600	1950	482			0.03	0.024
8/15/2000			0.18						986	2820				57000	25600				98	0.0073	220	5.1								7.11			1770	< 0.015	1880		21	< 0.02	15600	830	426				
12/13/2000			0.11						1010	2580				2900	20600				44.9	0.0095	265	5.2								7.22			1690	< 0.015	2870		8.3	< 0.002	13400	441	230				
4/27/2001		2570		1220	0.047	2.9		< 0.005	885	2050	12600	< 5	0.048	200	2270	< 0.025			51.8	0.0075	288	8.3			< 0.2	0.13					6.6	140		1330	< 0.015	2210	< 20	20.8		4400	379	121			< 0.025	< 0.02
8/8/2001									1020	2340				800	10170				39	0.014	368	5.3								6.5			2080	< 0.015	3140		23.9		22200	337	232				
12/10/2001			0.05						784	3200				2500	6140				109	0.0093	320	2.8								6.66			2130	< 0.015	3530		13.3	< 0.01	16900	396	372				
5/9/2002	2900	2900		1310	0.055	2.4		< 0.005	499	1990	9500	< 5	0.064	2000	31761	< 0.025			25.4	0.0078	287	3.2			< 0.2	0.15					7.02	< 11		1330	< 0.015	2530	< 2	20.3		13500	311	44			0.033	< 0.02
8/13/2002									802	2600				4400					23.7	0.0075	335	2.2									6.62			2290	< 0.015	4380				15000	179	528		17.9		
12/9/2002									415	2060				3300	31736				22.5	0.0068	297	3								6.79			1320	< 0.015	2460		13.9		16300	320	128		18.5		
4/30/2003		1950	0.059	922	0.065	1.4		< 0.005	283	1700	7180	< 5.3	0.066	1800	22679	< 0.025			12.9	< 0.005	236	3.5			< 0.2	0.13			158		6.77	< 43		1170	< 0.015	2160	< 10	<	< 0.01	11100	294	150		< 0	0.03	< 0.02
8/11/2003									299	1640				20	13510				23.3	< 0.005	232	3.2								6.88			1140	< 0.015	2160		25.2		14700	207	24		68.2		
12/16/2003									161	1340				10000	21312				15.7	< 0.005	194	1.9								6.95			1120	< 0.015	2060		18.8		9520	197	26		14.1		
5/14/2004	378	378	< 0.2	1930	0.086	1.7	130	< 0.005	274	2710	8970	< 5	0.18		32265	< 0.025			7	< 0.005	278	2.7	< 0.0002		< 0.2	0.18			-97		7.04	< 39		1290		2840	1.3	21.4		13200	221	3		27.2	0.072	0.024
8/12/2004	3220	3220		2340	0.07				258	2700	8670				32045				5.9	< 0.005	276	2.4								6.91			1310		2710	2.4	23.3		13000	485	< 3		18.2		
12/6/2004	1210	1210		1480	0.047				160	2170	8150				29200				4.2	< 0.005	151	1.5								7.32			729		1550	1.7	18.2		10700	282	23		11.6		
5/18/2005							130																																							
5/18/2005		2620	< 0.2	1500	0.052	0.73		< 0.005	150	2280	7210	< 5	0.088		25590	< 0.025			10.3	< 0.005	146	1.4			< 0.2	0.072			-120.8		6.87	14		664		1390	4.4	19.2		9930	343	42		18.1	0.034	< 0.02
8/17/2005		4480		2510	0.096				141	3030	9660				34782				8.7	< 0.005	206	0.58								6.07			1040		2380	5.2	21.5		17300	480	33		21		
12/19/2005		3950		2450	0.073				247	2870	14200				13550				5.9	< 0.005	278	1.2								7.27			1520		3190	3.1	14.5		12200	303	< 3		22.3		
5/11/2006		3780	< 0.2	1660	0.26	1.5	120	< 0.005	229	4860	2950	< 5	0.14		31930	< 0.025			21.8	< 0.005	273	0.96			< 0.2	0.19			-119		7.01	< 10		1500		3050	< 1	18.5		15100	471	13		6.5	0.044	< 0.02
5/21/2008		3780	< 0.2	430	0.056	1.2			376	1990	12100	< 6.7	0.12		23780	< 0.025			2.8	0.0075	308	1.4			< 0.2	0.13			-15		7.14	63		1090		2160	1	17.7		13500	314	9.2		37.2	0.043	< 0.02
8/19/2008		3710		1280	0.056	1.3		< 0.005	316	2520	6920	< 6.7	0.15			< 0.025			12	< 0.005	294	2.3			< 0.2	0.13					7.28			1000		2180	< 1			15000	330	34.8			0.045	0.029
12/11/2008		4060		1280	0.084	1.3		< 0.005	231	2570	7790	< 5	0.19			< 0.025			13.2	< 0.005	299	1.5			< 0.2	0.15								1300		2810	3.6			12800	353	13.6			0.053	0.024
5/14/2009		4370	< 0.200	1430	0.0996	1.12	100	< 0.0050	159	2630	10000	< 20	0.170		35100	< 0.0250	4.2		5.96	< 0.0050	280	0.773	< 0.0002			0.176	< 0.050			14.7	7.48			1300		3020	2.01	18.6		19100	396	< 4.0		26.3	0.0494	< 0.0200
7/17/2009																																< 10													
5/9/2018		5000	0.090		0.12	0.51	160	< 0.0020	100	1200	7700	< 40	0.25			< 0.025	2.6		2.1	< 0.0050	200	0.81	< 0.00020			0.22	< 0.050			-16.9	7.35		< 500		1000	< 0.0060	2600	< 5.0	19.1	< 0.020	11000	390	< 4.0	9.6		0.061	< 0.020
8/30/2018		4000	< 0.25		0.088	0.70		< 0.0050	130	940	5500	< 40	0.17			< 0.025	3.8		5.0	< 0.0050	170	1.2	< 0.00020			0.18	< 0.050			84.4	7.20			1100		2600	< 5.0	20.3		11000	280	< 4.0	23.0		0.047	< 0.020
11ALD																																														
12/8/1998			< 0.05						166	1550					817				9.6	< 0.005	7.9	5.9									5.95			19	< 0.004	123		7.8	< 0.002	1190	482	7	< 0			
5/7/1999		568	< 0.03	0.76	0.076	0.057		< 0.005	182	96.5	22.2	< 5	< 0.01		1315	< 0.025			0.52	< 0.005	19.8	1.9	< 0.0002			< 0.04	< 0.05				7.7		< 10		35.3	< 0.015	728	1200	11.7	< 0.002	2740	24.2	9		< 0	< 0.025	< 0.02
8/10/1999			0.42						149	14.1					1185				0.51	< 0.005	20.6	1.5									7.24			33.2	< 0.015	871		9	< 0.002	2340	6.7	3				
11/17/1999			< 0.03						114	< 10					2150				1.6	< 0.005	13.9	1.7								6.88				23.2	< 0.015	368		12.3	< 0.002	1650	5	3.5				
4/26/2000		449	0.061	0.21	< 0.005	0.033		< 0.005	94.3	13.4	12	< 5	0.022		1275	< 0.025			3.2	< 0.005	9.5	2.6			< 0.2	0.04					6.63	< 10		13.6	< 0.015	262	396	16.8	< 0.002	978	3.8	10			< 0.025	< 0.02
8/14/2000			< 0.058						129	< 10					1591				3.2	< 0.005	13	2.1									6.68			15.8	< 0.015	289		21	< 0.002	1180	4.4	11				
12/13/2000			< 0.03						109	< 10					1361				1.1	< 0.005	11.2	0.51									7.57			14.6	< 0.015	249		16.9	< 0.002	1110	23.1	< 3				
4/27/2001		438		< 0.02	< 0.005	0.034		< 0.005	98.7	11.7	16.8	< 5	< 0.01		1628	< 0.025			0.51	< 0.005	14.6	0.31			< 0.2	< 0.04					6.73	< 10		16.3		358	748	19.8		1510	7	< 3			< 0.025	< 0.02
8/7/2001									129	< 10					1789				0.31	< 0.005	20.4	0.43									7.02			21		484		23.3		1580	4	6				
12/4/2001									133	< 10					3272				0.92	< 0.005	26.6	0.31									7.26			20.8		613		18.5		2670	10.6	< 3				
5/9/2002	563	563		< 0.02	< 0.005	0.04		< 0.005	130	12.3	19.7	< 5	< 0.01		3534	< 0.025			0.52	< 0.005	25.6	0.22			< 0.2	< 0.04					7.35	< 10		18		671	1260	19		2530	4.3	< 3			< 0.025	< 0.02
8/12/2002									135	11									2.5	< 0.005	29.6	3.1									6.7			21.9		949				2770	6.5	< 3		5.7		
12/10/2002									133	< 10					3616				7	< 0.005	32.4	3.5									6.95			14.4		755		12.2		2810	5.4	15		9.5		
4/29/2003		436		< 0.02	0.029	0.03		< 0.005	140	31.8	17.4	< 5	< 0.01		3552	< 0.025			4.3	< 0.005	29.3	1.3			< 0.2	< 0.04			-71		6.86	< 10		17.1		765	1420	18.1		2800	7.9	12		7.4	< 0.025	< 0.02
8/12/2003									143	< 10					3274				3.7	< 0.005	28	1.4									6.86			18		739		21.4		2620	6.2	18		11.7		
12/19/2003									120	15.1					1959				1.9	< 0.005	17.4	0.46									7.08			14.2		434		12.7		1540	8.8	< 3		4.6		
5/13/2004	378	378	< 0.2	0.1	0.0076	0.024	< 2	< 0.005	104	10.8	30.5	< 5	< 0.01		2165	< 0.025			0.86	< 0.005	15.9	0.2	< 0.0002		< 0.2	< 0.04			45		7.13	< 10		13.9		382	636	24.2		1020	1.3	4		2.5	< 0.025	< 0.02
8/11/2004	326	326		0.035	< 0.01				145	< 10	40.9				2763				0.44	< 0.005	22.7	0.19									6.93			19		497	1470	22.7		1920	3.2	< 3		3.4		
12/3/2004	405	405		0.12	< 0.01				138	< 10	12.7				1860				0.11	< 0.005	17.2	0.032									7.58			15		292	613	18.1		1330	1.6	< 3		1.2		
5/18/2005		402	< 0.2	0.11	< 0.005	0.031	< 2	< 0.005	142	< 10	20.6	< 5	< 0.01		3314	< 0.025			0.12	< 0.005	21	0.035			< 0.2	< 0.04			-46.5		7.21	< 10		19.2		424	841	18.8		1850	2.9	< 3		4.6	< 0.025	< 0.02
8/18/2005		400		0.29	< 0.01				110	< 10	16.2				4565				0.25	< 0.005	12.1	0.14									6.04			10.7		224	424	21.6		1100	3.1	4		17.3		
12/19/2005		467		0.14	< 0.01				119	< 10	20.7				1024				0.24	0.0084	17	0.028									7.7			16.5		339	608	11.2		1620	5.3	< 3		3.2		
5/12/2006							< 2																																							
5/12/2006		1220	< 0.2	429	0.036	0.53			160	721	1730	< 5	0.044		10780	1.3			1.8	0.045	95.9	0.35			< 0.2	0.067			115		7.12	< 10		511		1260	716	17.1		5440	128	4		30.7		1.6
5/18/2007		583	< 0.2	1.9	0.013	0.028	< 2		126	< 10	21.7	< 5	< 0.01		2134	0.42			0.57	0.016	19.5	0.034			< 0.2	< 0.04			105		7.42	< 10		18.6		348	640	14.1		5900	2.1	9		3		0.65
5/21/2008		607	< 0.2	1.8	0.02	0.045			197	19.9	96	< 5	< 0.01		2667	0.19			2	0.023	31.9	1.2			< 0.2	< 0.04			3.2		6.97	< 10		26.5		454	985	18.3		2350	6	< 4		5.2		0.3
8/19/2008		1910		307	0.024	0.49		< 0.005	249	980	2900	< 5	0.047			0.15			6.1	0.0099	135	8.4			< 0.2	0.11					7.2			434		1140	755			5530	129	7.2			< 0.025	1.1
12/11/2008		680		19.5	0.8	0.2		< 0.005	144	589	95.9	< 5	< 0.01			0.056			91.2	0.0073	15.7	13.2			< 0.2	< 0.04								21.7		265	< 1			1240	171	196			< 0.025	0.022
5/21/2009		655	< 0.200	3.77	0.203	0.0902	18	< 0.0050	111	32.7	121	< 5.0	< 0.0100		1841	1.13	7.4		14.3	0.850	17.0	3.75	< 0.0002			0.0478	0.409			198	5.85				24.6		291	291	24.6		1100	11.7	36.8		111	< 0.0250	3.16
7/17/2009																																< 10														
5/10/2018		350	< 0.080		< 0.0090	0.018	< 2.0		120	< 10	100	< 1.0	< 0.010			< 0.025	5.9		0.081	< 0.0050	16	0.14	< 0.00020			< 0.040	11			60.1	6.83		< 10		16		250	420	17.4		1100	1.8	< 4.0	7.0			0.031
9/5/2018		380	< 0.25		< 0.0090	0.020	< 2.0		120	< 10	37	< 1.0	< 0.010			< 0.025	5.8		0.074	< 0.0050	12	0.20	< 0.00020			< 0.040	9.4			88.3	6.68		< 10		11		140	280	19.9		850	1.6	< 4.0	3.9			0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
11BLC																																																
11/18/1999														40000																																		
11/23/1999										946																																					
11/23/1999			0.093						308						2360				66.3	< 0.005	82.2	46.6									6.09																	
4/27/2000		3380	0.16	815	0.051	3.7		< 0.005	1640	5390	3640	< 16	0.081	430000	15500	< 0.025			283	< 0.005	439	72.2			< 0.2	0.084						6.56	410		58.8	< 0.015	184		14	< 0.002	2080	412	67				0.026	< 0.02
8/15/2000			0.15						840	3350				1700	17380				153	< 0.005	437	6.8									7.27			732	< 0.015	1700		20.4	< 0.02	11900	1090	509					
12/13/2000			0.064						423	3410				810	15140				71.1	< 0.005	481	2.1									7.28			1080	< 0.015	2110		15.3	< 0.002	9420	357	279					
4/27/2001		4070		1070	0.25	1.8		< 0.005	352	2030	6740	< 5	0.071	200	17260	< 0.025			32.9	0.0073	430	1.5			< 0.2	0.16						6.79	84		921	< 0.015	1890	< 10	21.1		11800	512	126				0.025	0.038
8/8/2001									224	2390				11000	13630				12.7	0.011	618	0.68									6.84			1390	< 0.015	2610		25.8		15400	435	66					
12/10/2001			0.12						163	2570				11000	7540				6.1	0.0078	513	0.58									7.06			1460	< 0.015	2770		13.6	< 0.01	13700	495	20					
5/9/2002	4820	4820		2150	0.29	1.3		< 0.005	151	2430	8060	< 5	0.1	440	32049	< 0.025			22.7	0.0083	488	0.56			< 0.2	0.21						7.28	< 10		1320	< 0.015	2780	< 5	19.3		13800	434	34				0.061	0.063
8/13/2002									151	2900				< 10					12.2	0.0088	491	0.58									6.84			2010	< 0.015	4150				14000	349	360		55.7			
12/9/2002									134	2110				2700	32597				9	0.0056	469	0.53									7.01			1380	< 0.015	2830		15.6		11200	447	184		21.2			
4/30/2003		4280	0.12	2390	0.37	1.1		< 0.005	123	2360	8380	< 5.3	0.12	8	26752	< 0.025			6.2	< 0.005	445	0.6			< 0.2	0.26			148			6.93	< 43		1400	< 0.015	2950	101	<	< 0.01	13600	431	130		< 0	0.082	0.027
8/11/2003									124	2840				< 10	19200				6.5	0.0053	395	0.53									7.18			789	< 0.015	3130		26		15400	381	160		36.7			
12/16/2003									103	2280				120	27487				6	< 0.005	320	0.42									7.17			1290	< 0.015	2740		20.3		11900	274	4		14.1			
5/14/2004	375	375	< 0.2	1900	0.32	0.94	91	< 0.005	133	2360	8760	< 5.3	0.14		29582	< 0.025			2.8	< 0.005	304	0.72	< 0.0002		< 0.2	0.23			-75			7.12	< 10		1180		2520	< 1	23.5		11600	288	< 3		11	0.079	< 0.02
8/12/2004	4360	4360		2140	0.4				122	3660	8900				30256				3.3	< 0.005	279	0.73									7.08			1240		2650	2	26.4		11800	490	< 3		14.8			
12/6/2004	132	132		1800	0.25				81.6	1980	7710				29200				1.2	< 0.005	167	0.59									7.5			716		1560	164	24.8		8850	452	21		306			
5/18/2005							349																																								
5/18/2005		3470	< 0.2	1550	0.2	0.37		< 0.005	78.6	1720	4940	< 5.3	0.059		21410	< 0.025			1.4	< 0.005	126	0.53			< 0.2	0.11			-131			7.05	< 10		584		1220	< 1	24.9		7740	355	< 3		12.6	0.033	< 0.02
8/17/2005		4590		1980	0.42				130	2100	7750				24168				5.3	< 0.005	221	0.67									6.05			1010		2400	2.4	26.8		12200	390	6		13.9			
12/19/2005		4620		1640	0.3				113	1220	7710				11510				3.3	< 0.005	236	0.65									7.34			1160		2530	< 1	24.1		10000	310	9		13.2			
5/11/2006		4250	< 0.2	1760	0.38	0.75	92	< 0.005	110	2580	8680	< 5	0.12		26430	< 0.025			6	< 0.005	245	0.57			< 0.2	0.21			-86			7.18	< 10		1200		2540	< 1	22.7		11200	506	< 4		5	0.067	< 0.02
5/21/2008		4480	< 0.2	1230	0.34	0.72			158	2030	5560	< 6.7	0.11		23220	< 0.025			1.3	< 0.005	231	0.45			< 0.2	0.18			-126			8.32	< 10		1040		2250	1.1	25.3		9950	249	19.6		30	0.056	< 0.02
8/19/2008		4340		1350	0.29	0.6		< 0.005	145	1890	5380	< 6.7	0.082			< 0.025			1.6	< 0.005	209	0.5			< 0.2	0.13						7.42			789		1830	< 1			7850	319	< 4			0.047	< 0.02
12/11/2008		4440		1720	0.35	0.74		< 0.005	155	2360	6270	< 5	0.11			< 0.025			4.3	< 0.005	245	0.58			< 0.2	0.17									1090		2470	3.9			10500	372	< 4			0.056	< 0.02
5/14/2009		4590	< 0.200	1360	0.409	0.787	62	< 0.0050	128	2650	6840	< 20	0.120		30880	< 0.0250	1.8		1.08	< 0.0050	264	0.435	< 0.0002			0.177	< 0.050			-122.2	7.39			1170		2760	1.76	25.5		14500	454	< 4.0		6.5	0.0676	< 0.0200
7/17/2009																																	< 10													
5/9/2018		5000	< 0.080		0.34	0.43	120	< 0.0020	72	1500	6500	< 50	0.093			< 0.025	2.4		8.6	< 0.0050	160	0.27	< 0.00020			0.24	< 0.050			62.2	7.36		< 500		920	< 0.0060	2500	< 5.0	24.0	< 0.020	10000	340	< 4.0	22.4		0.065	< 0.020
8/30/2018		4800	< 0.25		0.30	0.47		< 0.0050	77	1000	5900	< 50	0.087			< 0.025	2.7		5.7	< 0.0050	150	0.41	< 0.00020			0.21	< 0.050			90.4	7.27				1000		2600	< 5.0	24.7		11000	300	< 4.0	12.1		0.063	< 0.020
11BLD																																															
11/23/1999			0.17						48.9	20					602				0.2	< 0.005	5.9	0.058								8.01					10.4	< 0.015	123		11.2	< 0.002	498	3.3	< 3					
4/26/2000		1320	0.084	22.6	0.0085	0.19		< 0.005	188	192	608	< 5	0.025		3190	< 0.025			3.5	< 0.005	38.9	4.8			< 0.2	< 0.04						6.83	61		64.6	< 0.015	656	643	16.1	< 0.002	2400	72.5	15			< 0.025	< 0.02
8/14/2000			< 0.058						126	15.9					3660				1.5	< 0.005	29	1.2									7.45			28.6	< 0.015	825		21.3	< 0.002	2830	9.9	< 3					
12/13/2000			0.12						121	< 10					3260				1	< 0.005	26.3	0.51									7.75			26.4	< 0.015	1070		13.8	< 0.002	2560	50.6	< 3					
4/27/2001		3630		1300	0.16	1.5		< 0.005	354	2490	4790	< 5	0.063		16520	< 0.025			24.8	< 0.005	397	1.5			< 0.2	0.15						6.79	65		821		1730	143	19.8		10500	83.7	< 3			< 0.025	0.033
7/6/2001		660		< 0.02	< 0.005	0.04		< 0.005	76.5	< 10	24.7	< 5	< 0.01		2850	< 0.025			0.5	< 0.005	15.2	0.17			< 0.2	< 0.04						7.35	< 10		21.4		668	860	20		2560	6.3	8.5			< 0.025	< 0.02
8/7/2001									84.3	< 10					2250				0.81	< 0.005	17.3	0.15									7.13			23.4		720		24.8		1960	7.5	4				
12/4/2001									94.7	30					3419				0.54	< 0.005	30.8	2.4									7.03			68.6		626		18.3		2340	20.3	< 3				
5/9/2002	717	717		1.2	< 0.005	0.038		< 0.005	66.7	18.8	34.7	< 5	< 0.01		2758	< 0.025			0.72	< 0.005	13.5	2.8			< 0.2	< 0.04						7.47	< 10		15.2		553	674	18.8		1670	5.6	< 3			< 0.025	< 0.02
8/12/2002									56.9	< 10									0.34	< 0.005	11.5	0.25									7.41			15.1		674				1830	6	< 3		1.8		
12/10/2002									77.3	< 10					2214				1	< 0.005	14.8	3.8									6.79			13.8		503		15.1		1740	4.6	< 3		0.9		
4/29/2003		593		< 0.02	0.013	0.033		< 0.005	56.2	14.9	20.2	< 5	< 0.01		1805	< 0.025			2	< 0.005	9.8	2.1			< 0.2	< 0.04			-112			6.81	< 10		10.4		388	292	22.6		1270	3.7	< 3		3.8	< 0.025	< 0.02
8/12/2003									74.8	11.4					1489				9.7	0.0071	10.3	10.4									6.61			9.9		307		26		1060	4.6	22		1		
12/19/2003									61.1	< 10					1259				5.9	< 0.005	8.3	7.3									6.73			7.6		302		16.5		922	3.7	9		10.9		
5/13/2004	584	584	< 0.2	2.5	0.018	0.035	< 6	< 0.005	54.2	11.8	13.4	< 5	< 0.01		1232	< 0.025			3.5	< 0.005	7.1	3.9	< 0.0002		< 0.2	< 0.04			-73			6.79	< 10		6.6		221	69	27.4		739	2	9		7.7	< 0.025	< 0.02
8/11/2004	1340	1340		0.24	0.023				59.6	< 10	9.2				1092				5.6	< 0.005	6.4	3.8									6.64			6.4		198	96.8	27.9		665	3.6	8		12.8		
12/3/2004	337	337		0.081	< 0.01				73.2	< 10	2.2				1080				0.83	< 0.005	6.6	1.1									7.32			7.2		178	73.5	26.3		646	2.4	4		4.6		
5/18/2005		417	< 0.2	0.29	0.031	0.043	< 2	< 0.005	72.3	< 10	7.1	< 5	< 0.01		1362	< 0.025			6.4	< 0.005	6.3	4.1			< 0.2	< 0.04			90.8			6.64	< 10		7.2		170	91.9	25.6		699	4.2	7		16.8	< 0.025	< 0.02
8/18/2005		422		0.82	0.043				79.2	< 10	12.1				3555				10.9	< 0.005	6.9	5.3									5.7			6.9		184	116	26.1		1410	4.1	21		22.2		
12/19/2005		471		1.3	0.047				71.4	17.8	21.4				708				11	< 0.005	6.8	5									7.03			8.3		201	115	24.5		846	4.9	16		124		
5/12/2006							< 2																																							
5/12/2006		482	< 0.2	0.34	0.043	0.065			80.6	25.6	10.3	< 5	< 0.01		1344	< 0.025			10.8	< 0.005	8.1	3.3			< 0.2	< 0.04			-36			6.79	< 10		7.7		221	141	22.6		841	4.1	17		93.5		< 0.02
5/21/2008		1600	< 0.2	171	0.54	0.26			91.1	454	1150	< 5	0.024		6446	0.85			16.8	0.075	61.3	2.3			< 0.2	0.046			58			7.11	< 10		207		697	1.2	24.1		1380	87.1	46.4		72		0.47
8/19/2008		1930		358	0.14	0.22		< 0.005	92	562	1680	< 5	0.02			0.086			13	0.0053	67.4	2.3			< 0.2	< 0.04						7.34			245		786	46.3			3370	86.1	20.8			< 0.025	0.035
12/11/2008		1670		520	0.13	0.24		< 0.005	92	283	1900	< 5	0.026			0.068			10.7	0.0086	75.5	1.6			< 0.2	0.048									332		901	58.8			3710	100	6			< 0.025	0.039
5/21/2009		971	< 0.200	2.58	0.0488	0.162	14	< 0.0050	81.3	38.8	25.2	< 5.0	< 0.0100		1999	0.131	7.8		9.81	0.0677	11.5	2.20	< 0.0002			< 0.0400	< 0.050			158	5.48				10.5		350	246	21.9		1210	10.9	22.4		67.7	< 0.0250	0.145
7/17/2009																																	< 10													
5/10/2018		660	< 0.080		0.033	0.030	< 2.0		100	21	19	< 2.0	< 0.010			0.050	4.5		7.6	0.0080	17	0.83	< 0.00020			< 0.040	0.22			52.1	6.96		< 500		12		400	490	21.3		1400	5.3	20	83.2		0.087	

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperatur e,	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
11CLC																																																
11/18/1999														2																																		
11/23/1999										12.4																																					
11/23/1999			0.2						16						123				0.12	< 0.005	2	0.033									8.12				2.7	< 0.015	3.4		8	< 0.002	96	5.6	< 3				
4/27/2000		114	0.095	1.8	< 0.005	0.15		< 0.005	180	150	416	< 16	< 0.01	2100	1310	< 0.025			0.24	< 0.005	21.3	7.4				0.041						7.04	< 10		17	< 0.015	73	87.6	7.9	< 0.002	1150	67.9	4.5			< 0.025	< 0.02
8/15/2000			0.12						2150	7970				< 2	15110				363	0.011	270	147									7.03			476	< 0.015	1130		13.1	< 0.02	14900	2890	516				
12/13/2000			0.17						2920	1000				100	14970				468	0.016	398	150									6.99			915	< 0.015	2240		14.2	< 0.002	13400	2720	356				
4/27/2001		3310		890	0.13	3.3		< 0.005	877	5530	4420	< 5	0.037	200	11990	< 0.025			156	< 0.005	348	23.4			< 0.2	0.077					6.52	360		549	< 0.015	1280	42	22.4		9760	742	210			< 0.025	0.024
8/8/2001									318	1910				26000	11640				19.3	< 0.0058	422	2.7									4.71			842	< 0.015	1860		25.8		15000	414	168				
12/10/2001			0.074						290	2290				200000	6170				12.2	0.0062	386	5.2									6.96			1110	< 0.015	2350		12.5	< 0.01	11400	395	62				
5/9/2002	3830	3830		1860	0.38	2.1		< 0.005	159	2580	7820	< 5	0.14	2000	31657	< 0.025			1.6	0.0071	350	1.7			< 0.2	0.16					7.45	< 10		1210	< 0.015	2530	64.6	21.6		12100	516	3			0.071	0.038
8/13/2002									155	2950				2600					4.9	< 0.005	353	1.1									7.08			1920	< 0.015	4250				13300	519	312		40.2		
12/9/2002									170	2020				2100	26522				1.8	0.005	322	2.7									7.1			1020	< 0.015	2200		15.6		9040	392	184		21.2		
4/30/2003		2760	0.11	1600	0.37	1.1		< 0.005	183	1880	6700	< 5.3	0.11	8900	21702	< 0.025			2.4	< 0.005	280	4.1			< 0.2	0.16			124		6.98	< 21		1010	< 0.015	2200	939	<	< 0.01	9610	417	110		< 0	0.054	< 0.02
8/11/2003									165	2180				< 10	13050				2.5	< 0.005	270	2.9									7.01			1110	< 0.015	2370		28.9		12300	407	< 3		69.1		
12/16/2003									209	1560				20000	22638				3.6	< 0.005	268	3.8									7.14			1090	< 0.015	2380		18.9		11200	232	4		28.2		
5/14/2004	349	349	< 0.2	1900	0.49	0.92	65	< 0.005	187	1960	7780	< 5.3	0.13		25087	< 0.025			8.1	< 0.005	247	3.9	< 0.0002		< 0.2	0.16			-11.4		7.1	< 10		978		2130	502	23.5		9810	295	< 3		9.2	0.066	< 0.02
8/12/2004	3920	3920		1970	0.37				152	2380	6960				26475				2.9	< 0.005	222	1.8									7.09			952		2080	193	25.3		10400	437	< 3		19.7		
12/6/2004	115	115		932	0.2				86.1	1700	6150				24700				0.97	< 0.005	126	1									7.48			504		1130	< 1	22.1		8610	436	16		14.9		
5/18/2005							74																																								
5/18/2005		3680	< 0.2	1830	0.22	0.54		< 0.005	100	1740	5240	< 5.3	0.072		23020	< 0.025			0.93	< 0.005	136	1.1			< 0.2	0.078			-172.8		7.06	< 10		638		1360	< 1	23.7		7990	372	< 3		17.2	0.034	< 0.02
8/17/2005		4370		1820	0.28				122	1910	6640				24190				0.95	< 0.005	183	0.93									6.09			814		1960	< 1	27.3		10500	366	< 3		16.3		
12/19/2005		4070		1820	0.36				126	871	6770				18370				1.4	< 0.005	196	1.2									7.46			941		2070	< 1	21.3		8560	397	< 3		43.5		
5/11/2006		3590	< 0.2	1440	0.31	0.85	72	< 0.005	107	1760	6140	< 5	0.12		20630	< 0.025			0.8	< 0.005	182	0.98			< 0.2	0.11			-200		7.18	< 10		884		1910	< 1	10.9		8490	431	< 4		10.9	0.056	< 0.02
5/21/2008		4230	< 0.2	998	0.32	0.84			119	1850	5120	< 6.7	0.11		22030	< 0.025			3.1	< 0.005	164	0.78			< 0.2	0.11			-152		7.14	< 10		917		2040	1.2	21.2		9610	287	6.8		18.3	0.06	< 0.02
8/19/2008		3180		1200	0.34	0.66		< 0.005	181	1660	5360	< 6.7	0.076			< 0.025			2.5	< 0.005	210	1.7			< 0.2	0.12					7.3			747		1670	62.7			8160	268	8			0.035	< 0.02
12/11/2008		4450		1310	0.31	0.9		< 0.005	161	2410	6840	< 5	0.12			< 0.025			0.77	< 0.005	246	0.74			< 0.2	0.12								1050		2360	5.9			10900	363	< 4			0.055	< 0.02
5/14/2009		5220	< 0.200	1490	0.325	1.02	100	< 0.0050	122	2820	7930	< 20	0.160		31480	< 0.0250	1		0.778	< 0.0050	260	0.560	< 0.0002			0.145	< 0.050			-161.8	7.38			1240		2890	1.96	21.6		15000	452	< 4.0		17.5	0.0772	< 0.0200
7/17/2009																																< 10														
5/9/2018		4000	0.10		0.11	0.29	90	< 0.0020	120	1500	7200	< 50	0.092			< 0.025	3.9		6.1	< 0.010	190	2.2	< 0.00020			0.21	15			8.9	7.27		< 500		940	< 0.0060	2500	120	19.1	< 0.020	10000	320	14	90.4		0.028	0.029
8/30/2018		4000	< 0.25		0.23	0.45		< 0.0050	130	1000	5800	< 50	0.12			< 0.025	1.3		20	< 0.025	190	2.0	< 0.00020			0.22	< 0.050			54.6	7.11				1100		2800	110	20.7		12000	300	18	1.4		0.059	< 0.020
11CLD																																															
11/23/1999			1.1						23.9	17.4					376				1.3	< 0.005	2.9	0.074								7.87				5	< 0.015	37.4		11.6	< 0.002	314	2.6	5.5				
4/26/2000		127	0.28	< 0.02	< 0.005	0.024		< 0.005	51.7	12.5	10.8	< 5	< 0.01		542	< 0.025			0.12	< 0.005	6.2	0.074			< 0.2	< 0.04						6.72	< 10		7.8	< 0.015	122	211	17.7	< 0.002	532	4.2	4			< 0.025	0.16
8/14/2000			0.084						955	806					3900				170	< 0.005	147	104									6.46			226	< 0.015	654		24	< 0.002	7150	283	123				
12/13/2000			0.38						146	24.8					1037				1.1	< 0.005	12	0.21									7.51			13.8	< 0.015	153		12.3	< 0.002	749	48.9	< 3				
4/27/2001		3420		737	0.19	3.9		< 0.005	1010	5120	3770	< 5	0.056		12500	< 0.025			224	0.0077	383	31.1			< 0.2	0.085					6.46	90		614		1450	46	21		9330	124	118			< 0.025	< 0.02
7/6/2001		379		0.044	< 0.005	0.056		< 0.005	113	< 10	5.9	< 5	< 0.01		916	< 0.025			0.1	< 0.005	8.4	0.028			< 0.2	< 0.04					6.8	< 10		12.5		107	90	20.8		647	2.5	9			< 0.025	< 0.02
8/7/2001									120	< 10					870				0.44	< 0.005	9.4	0.025									7.14			13.6		121		21.3		620	3.3	6.5				
12/4/2001									106	< 10					899				0.17	< 0.005	8.6	0.015									7.02			10.8		93.4		18.8		674	8.1	< 3				
5/9/2002	380	380		< 0.02	< 0.005	0.046		< 0.005	107	< 10	2.7	< 5	< 0.01		863	< 0.025			0.11	< 0.005	7.7	0.07			< 0.2	< 0.04					7.52	< 10		11.1		62.2	43.9	22.5		524	2.2	< 3			< 0.025	< 0.02
8/12/2002									114	< 10									0.07	< 0.005	8.3	0.03									6.6			11.2		72.3				540	2.3	< 3		0.99		
12/10/2002									96.3	< 10					635				< 0.03	< 0.005	6.6	0.012									6.81			10.1		54.6		13.5		429	1.4	< 3		< 0		
4/29/2003		224		< 0.02	< 0.005	0.036		< 0.005	88.2	13.5	1.8	< 5	< 0.01		624	< 0.025			< 0.033	< 0.005	5.7	< 0.01			< 0.2	< 0.04			-65		6.84	< 10		8.8		42.5	56.6	24.9		408	< 1	< 3		< 0	< 0.025	< 0.02
8/12/2003									97.4	< 10					642				< 0.033	< 0.005	6	0.022									7.15			9.5		47.4		26.6		428	< 1	7		0.6		
12/19/2003									68.8	< 10					443				< 0.03	< 0.005	4.2	0.014									7.01			7.2		32.3		17.7		275	< 1	8		2.4		
5/13/2004	264	264	< 0.2	< 0.02	< 0.005	0.029	< 2	< 0.005	80.5	< 10	< 0.5	< 5	< 0.01		590	< 0.025			0.065	< 0.005	4.2	0.016	< 0.0002		< 0.2	< 0.04			113		7.3	< 10		7.8		30	44.1	27		163	< 1	< 3		2.4	< 0.025	< 0.02
8/11/2004	136	136		< 0.02	< 0.01				89.4	10.2	2.2				643				0.12	< 0.005	5.2	0.036									7.01			8.6		37.4	77.6	25.7		370	1.2	< 3		3.7		
12/3/2004	299	299		0.086	< 0.01				86.2	< 10	1.6				650				0.038	< 0.005	6	0.033									7.38			8.2		34.4	41.2	22.7		359	< 1	< 3		1.3		
5/18/2005		387	< 0.2	< 0.02	< 0.005	0.043	< 2	< 0.005	106	< 10	2.5	< 5	< 0.01		1154	< 0.025			0.037	< 0.005	7.7	0.063			< 0.2	< 0.04			-59.2		6.94			9		45.7	39.1	22.2		462	1.2	4		2.4	< 0.025	0.032
5/19/2005																																< 10														
8/18/2005		310		0.099	< 0.01				102	< 10	2.1				12722				0.044	< 0.005	7	0.024									5.94			7.6		36.3	38	21.1		561	1	< 3		7.8		
12/19/2005		375		< 0.02	< 0.01				116	< 10	2.7				491				0.099	< 0.005	8.6	0.038									7.16			9.6		45	34.6	20.1		494	< 1	< 3		9.5		
5/12/2006							< 2																																								
5/12/2006		303	0.27	< 0.02	< 0.005	0.049			116	14.7	2.3	< 5	< 0.01		846	< 0.025			0.27	< 0.005	9.4	0.06			< 0.2	< 0.04			51		6.88	< 10		9.5		44.6	53.9	20		528	< 1	5		13.9		< 0.02
5/21/2008		355	< 0.2	1.6	0.0055	0.048			113	< 10	6.8	< 5	< 0.01		903	0.3			0.19	0.03	8.2	0.034			< 0.2	< 0.04			13		7.45	< 10		9.2		40.3	56.8	20.6		472	< 1	< 4		4.6		0.23
8/19/2008		1110		226	0.056	0.21		< 0.005	147	436	1320	< 5	0.018			0.09			0.87	0.011	62.5	0.55			< 0.2	< 0.04					7.26			196		470	72.9			3190	65.8	< 4			< 0.025	0.12
12/11/2008		1930		686	0.14	0.42		< 0.005	146	993	3130	< 5	0.048			2.6			1	0.19	122	0.5			< 0.2	0.062								464		1050	6.9			5320	156	< 4			< 0.025	1.6
5/21/2009		315	< 0.200	0.848	0.0669	0.0431	< 2.0	< 0.0050	104	< 10.0	3.6	< 5.0	< 0.0100		818	0.103	7.2		0.641	0.0595	7.93	0.0207	< 0.0002			< 0.0400	0.755			28	5.71				8.77		50.8	85.7	20.8		443	2.0	< 4.0		7.9	< 0.0250	5.13
7/17/2009																																< 10														
5/10/2018		310	< 0.080		< 0.0090	0.026	< 2.0		87	< 10	9.7	< 1.0	< 0.010			0.026	8.2		0.066	< 0.0050	9.7	0.012	< 0.00020			< 0.040	8.7			44.9	7.07		< 10		8.3		230	77	17.4		980	1.7	< 4.0	4.6			0.048
9/5/2018		420	< 0.25		< 0.0090	0.045	< 2.0		130	< 10	8.8	< 1.0	< 0.010			0.051	5.3		0.095	< 0.0050	12	< 0.010	< 0.00020			< 0.040	9.1			96.2	6.50		< 10		10		230	420	22.0		1100	1.6	< 4.0	4.5			0.11

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml		umhos/cm	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																	
123LC																																																	
11/12/1992	< 0.1	2600		330	0.12	0.5	< 100	< 0.005	240	1000	1300		< 0.01			3280	0.02			48	0.02	150	2.5			< 0.3	0.11						7.2		1.1		< 0.02	530	80	9.6		4000	0.33	1800			0.36	0.41
1/27/1993	< 0.1	3300		130	0.1	0.6	220	< 0.005	280	1200	1600		0.02			8580	0.02			31	0.03	180	2.2			< 0.3	0.11						7.59		4		< 0.02	730	80	7.5		4300	0.21	250			0.49	0.18
5/6/1993	< 0.1	2400		520	0.07	1.2	800	< 0.005	930	140	3800		0.01			9330	< 0.02			74	0.02	180	3.8			< 0.3	0.13						7.19		0.59		< 0.02	1000	120	12.3		7500	0.005	260			0.39	0.04
8/11/1993	< 0.1	6700		850	0.11	1.1	900	0.01	600	1700	2700		0.03			13200	0.11			61	0.02	170	2.6			< 0.3	0.2						7.06		0.67		< 0.02	830	90	18.6		6000	0.5	670			0.76	0.12
10/27/1993		2220		614	0.27	2.9	656	0.018	1420	1380	2670	< 2	0.077	2500		11320	0.21		1450	474	0.047	213	9.1			0.5	0.85			<			7.17	520	0.46		< 0.041	879	< 1.399999	11.8		5610	362	1110	< 0		2.5	0.64
3/17/1994							66							8000	<														<																< 0			
5/2/1994		776		174	0.075	3.16	407	0.0041	3260	929	6420	< 50	0.0166	20000		11280	0.0241		3260	35.6	< 4	77.9	29.5			0.27	< 60			10			6.94	407	0.284		< 0.008	1090	9.7	10.8		12900	212	318	< 0		0.119	0.0259
8/3/1994		2060		421	< 7	1.15	165	< 0.003	558	487	3150	< 3	0.0059			13270	0.013		558	43.3	< 4.5	146	4.34			< 0.049999	0.0745			<			7.18	250	0.43		< 100	819	< 7	15.5		5900	135	197	< 0		0.152	0.0244
11/10/1994		2270		528	0.068	1.22	70	< 0.003	654	426	3690		0.0082	6200		5970	< 0.007		654	27.1	< 0.0009	167	2.44			< 0.049999	0.0641			-118			7.11		0.26		< 0.01	1210	< 7	10.3		5240	97.4	89	< 0		0.172	0.017
2/6/1995		643		51.4	0.032	0.544	25	< 0.003	418	153	1180		0.0085			4470	0.0084		418	25.4	< 0.0009	56.8	9.9			< 0.049999	0.0205			57			7.33		< 0.2		< 0.01	310	23.2	3.9		2330	35.6	9	< 0		0.0302	0.0125
5/11/1995		2800		661	0.0886	1.2	63	< 0.003	576	496	3620		0.012	270		10470	< 0.007		576	33.8	< 1.799999	186	2.39			< 0.049999	0.082			<			7.01		< 0.2		< 0.01	1080	< 7	10.8		7280	112	106	< 0		0.223	0.0106
8/30/1995		1550		261	0.0515	1.11	33	< 0.0044	574	321	2820	< 0.4	0.0182	90	<	< 0.01			574	31.1	< 0.0009	124	7.79			< 0.049999	0.0512			<			<	35	< 0.2		0.0106	846	7.8	<		6320	71.2	91	< 0		0.138	0.0273
12/8/1995		1830		631	0.045	3.02	84	< 0.0044	1680	364	8050		< 0.0034	<		14260	< 0.01		1680	78.5	< 9	197	10.6			0.18	0.0477			-66			7.07		0.28		< 0.01	2110	59.2	6.6		13100	86.3	228	< 0		0.198	0.0271
2/28/1996		1750		577	0.095	2.45	47	< 0.0044	926	514	5730		0.007	10000		10700	0.0105		926	46.6	< 0.0009	148	4			< 0.049999	0.0578			-276			6.65		0.37		< 0.01	1500	52.6	8.8		9410	67.4	187	< 0		0.137	0.0236
5/30/1996		862		111	0.0465	0.457	881	< 0.0044	498	1620	1870	< 0.4	0.008	19000		5570	0.0334		498	26.4	0.0015	70.6	9.58			0.055	0.146			<			6.72	1500	< 0.2		< 0.01	289	47.3	14.4		5270	500	52	< 0		0.0343	0.0529
8/21/1996									2270	5000				400	14180					39.1	0.0033	78.8	11.7									7.07			1140	< 50	1750		17.4		17100	1720	74	< 0			
10/29/1996	1170	1170		248					1590		4890					8000				46.6		48.7	13									6.9			632		1090	110	13.6		10100	863					
12/11/1996									2040	1740				<		5500				445	0.221	55.2	30.8									4.35			328	< 0.01	685		8.5		8900	532	968	< 0			
5/6/1997		1290		248	0.643	2.27		< 22	1620	1500	4390	< 0.4	0.0802	<		1511	0.258		1620	447	0.125	89.6	17.9			0.051	0.235						7.16	3600		503	< 50	934	89.9	8.9		7450	357	1010	< 0		0.298	0.502
8/27/1997									1940	1830				<		12480				254	0.0636	66.3	24.7									6.2			562	< 0.01	1020		17.1		8890	529	1000	< 0			
12/15/1997									173	259				<		1200				54.7	0.0027	83.1	15									6.56			26.4	< 0.01	79.9		5.7		3650	26.3	144	< 0			
4/23/1998		882		325	0.141	2.29		0.0138	1200	1170	4720	< 0.4	0.208	<		11890	0.176		1200	315	0.0943	120	14			0.12	0.787						6.13	1800		728	< 0.01	970	90	9.3		11100	67.9	457	< 0		0.411	0.681
8/31/1998									5230	9940				<		35400				82.9	< 5	99	8.52									6.63	12000		2430	0.0135	4100		18.1		39000	2760	355	< 0			
12/2/1998									299	292				200	2650					36.4	0.0067	53.1	4.9									6.63			391	< 0.015	485		10.4		2520	144	2680	< 0			
3/2/1999		600							954		4800	< 5										34.3	4.8												482		839	45.6									
5/5/1999		989		337	0.044	1.9		< 0.005	1590	1690	58	< 5	< 0.01	< 1		16200	< 0.025			38.6	0.0051	67.5	7.5	< 0.0002			< 0.04	0.11			6.14		1200		814	< 0.015	1120	19.5	15		7100	389	91.5		< 0	0.045	< 0.1
8/11/1999									3620	4770						4950				2060	0.76	109	15									6.85			1730	< 0.015	2690		18.8		31000	1360	1330				
8/11/1999														800																																	
11/18/1999														1400																																	
11/18/1999									1830	2400						18090				55.2	0.0081	57.1	8.7								6.77					1430	< 0.015	1490		8.1		14100	287	176				
5/3/2000		551		283	0.029	0.28		< 0.005	173	188	1480	< 5	< 0.01	<		3940	< 0.025			25.4	< 0.005	47.6	6.8			< 0.2	< 0.04						6.38	12		220	< 0.015	263	33.2	13.2		2230	21.2	60.5			0.39	< 0.02
8/22/2000									259	257						3000				32.6	< 0.005	70.4	5.5									6.76			351	< 0.015	706		16.1		2940	55	76.5				
9/15/2000														< 2																																	
12/13/2000									388	515						6260				40.2	< 0.005	67.9	7									7.29			478	< 0.015	890		7.3		3430	87.9	80				
3/5/2001														<																																	
5/10/2001		1530		944	3.2	6.2		0.12	3420	8380	11500	< 5	1.2	200		18620	0.78			3590	0.65	73.6	15.8			0.42	0.67						6.66	7000		1330	< 0.015	2620	< 100	15.7		19700	896	170			9	2.1
8/8/2001									1100	1440				5300		7290				73.9	0.036	139	5.1									6.72			1580	< 0.015	2040		23.5		13700	173	1350				
5/17/2007		2260	0.22	783	0.092	0.94	26		275	642	3710	< 6.7	< 0.01			14110	< 0.025			17.4	< 0.005	148	8.4			< 0.2	0.056			-36			6.89	< 10		618		1040	2.2	10.9		6480	95.2	18		129	0.1	< 0.02
5/21/2008		4510	0.29	684	0.13	1.4			457	1260	4890	< 6.7	0.013			21100	< 0.025			13.1	< 0.005	303	1.2			< 0.2	0.14			55			6.82	< 10		894		1770	1	14.4		9500	200	18.4		49.4	0.36	< 0.02
5/14/2009		3450	< 0.200	1440	0.174	1.36	29		381	1170	5160	< 20	< 0.0100			23800	< 0.0250	4.2		13.2	< 0.0050	288	1.04	< 0.0002			0.112	3.16			1.2	7.10		< 10		1050		1900	2.07	14.4		9560	192	21.1			0.182	< 0.0200
5/10/2010		4080	0.237	8310	0.217	1.78	15		404	1750	6870	< 20	0.0109			32840	< 0.0250	3.5		21.0	< 0.0050	296	0.741	< 0.0002			0.120	2.04			12	7.30		< 10		1220		2130	< 1.49	11.1		1290	161	68.0		188	0.207	< 0.0200
5/10/2011		1630	0.081	413	0.099	0.55	7.1		155	391	1870	< 100	< 0.010			88540	< 0.025	4.0		35.2	< 0.0050	93.3	8.6	< 0.00020			< 0.040	0.095			46	6.87		< 9.7		390		564	1.5	13.5		3740	48.4	94.0		220	0.043	< 0.020
5/11/2012		4680	0.096		0.15	1.6	33		364	1250	2140	< 100	0.010			25763	0.0076	4.4		16.7	< 0.0050	315	1.1	< 0.00020			0.12	0.25			58.8	7.25		< 48		1210		2020	< 1.5	15.0		13700	177	33.2		273.0	0.20	0.022
4/9/2013		3290	< 0.060	909	0.13	1.1	< 12		233	1240	5430	< 100	0.0094			19979	0.0045	4.3		8.6	< 0.0050	267	1.8	< 0.00020			0.086	14.4			7.0	7.40		< 48		974		1480	< 1.5	11.5		8370	160	21.6		115.0	0.11	0.010
5/15/2014		3940	< 0.060		0.27	1.4	3.0		256	535	6570	< 100	0.0094			23600	0.016	3.1		21.5	< 0.0050	296	0.79	< 0.00020			0.095	17.9			78.0	7.26		0.56		1190		1710	< 1.5	20.2		12300	180	75.6		164	0.15	0.014
5/11/2015		3030	< 0.060		0.27	1.9	28		306	381	7400	< 100	0.0085			22700	0.0022	3.18		19.1	< 0.0050	331	0.45	< 0.00020			0.067	11.0			35.0	7.60		< 48		1460		2250	< 1.5	14.4		10900	101	44.0		190.0	0.091	0.0072
5/20/2016		2900	< 0.060		0.084	1.2	31		330	370	6000	< 5.0	< 0.010			18148	< 0.025	3.8		8.5	0.0060	250	1.8	< 0.00020			0.069	3.7			-39.2	7.02		< 48		1200		1800	2.6	19.9		9000	87	52		227.0	0.025	< 0.020
6/1/2017		3600	< 0.080		0.37	1.5	21		300	520	6500	< 50	< 0.010				< 0.025	4.9		7.9	< 0.0050	350	0.35	< 0.00020			0.098	8.5			104.3	7.47		< 250		1300		2200	< 5.0	19.6		11000	120	26		49.2	0.21	< 0.020
5/9/2018		2000	0.099		0.097	1.1	40		250	660	4200	< 10	< 0.010				< 0.025	5.2		12	< 0.0050	170	1.2	< 0.00020			0.049	5.9			31.1	7.09		< 50		790		1200	< 5.0	18.6		6000	69	55	118.0		0.047	< 0.020
6/11/2019		2400	0.083		0.16	1.7	46		370	630	6400	< 10	< 0.010				< 0.025	3.1		19	< 0.0050	250	1.2	< 0.00020			0.063	1.1			16.7	7.29		< 250		1400		1900	< 5.0	18.0		11000	70	71	184		0.046	0.024
123LD																																																	
5/18/2007		592	< 0.2	25.7	0.12	0.12	3.7		121	< 10	248	< 5	< 0.01			2136	< 0.025			20.5	< 0.005	60.8	12.9			< 0.2	< 0.04			75			6.89	< 10		37.3		83.8	9.8	9.6		886	7.9	29		212		< 0.02
5/21/2008		759	< 0.2	41.7	0.18	0.35			152	51.5	396	< 5	< 0.01			2	< 0.025			96.1	< 0.005	98.7	8			< 0.2	< 0.04			3.6			6.71	< 10		67.8		146	1.6	13.2		1380	16.1	156		1000		< 0.02
5/21/2009		1560	< 0.200	339	0.0397	0.439	2.3		221	118	1760	< 5.0	< 0.0100			8198	< 0.0250	5.3		25.3	< 0.0050	250	2.67	< 0.0002			< 0.0400	0.533			-90	5.57		< 10		262		562	1.05	15.9		4260	29.4	61.6				< 0.0200
5/18/2010		686	< 0.045	9.92	0.0474	0.0982	2.5		166	26.8	295	< 5.0	< 0.0100			2249	< 0.0250	6.2		29.2	< 0.0050	93.0	2.72	< 0.0002			< 0.0400	< 0.050			-118.5	6.60		< 10		20.1		87.9	< 1.49	15.3		1200	12.8	62.8				< 0.0200
5/9/2011		415	0.082	16.0	0.019	0.20	< 2.0		168	< 10.0	428	< 5.0	< 0.010			2243	< 0.025	6.0		9.2	< 0.0050	66.7	23.6	< 0.00020			< 0.040	0.19			48	6.75		< 9.4		31.8		122	< 1.5	13.5		1460	2.6	22.8		82.7		< 0.020
5/10/2012		775	< 0.060		0.14	0.41	3.8		257	72.9	1180	< 5.0	0.0024			5526	0.017	5.2		44.1	0.0039	165	9.2	0.00016			0.012	0.055			91.7	6.53		< 10		125		368	< 1.5	14.4		2980	16.1	82.8		235		0.032
4/12/2013		475	< 0.060	7.7	0.080	0.13	2.0		128	42.3	182	< 5.0	< 0.010			1507	0.0021	5.8		47.9	0.0066	61.4	7.2	< 0.00020			0.0051	0.044			-107.0	6.81		< 9.5		13.9		61.2	2.1	10.5		988	7.5	89.6		12.5		0.0032
5/15/2014		508	0.061		0.29	0.25	36		151	47.6	374	< 5.0	< 0.010			2200	< 0.025	3.6		62.3	0.0070	72.4	9.0	< 0.00020			0.0078	< 0.050			-76.0	6.62		0.38		19.2		103	< 1.5	18.5		1220	10.4	120		228.0		0.0059
5/7/2015		496	< 0.060		0.17	0.33	2.2		172	31.5	497	< 5.0	< 0.010			2240	< 0.025	3.5		59.3	0.0034	70.9	9.4	< 0.00020			0.0082	< 0.050			-109.0	6.99		< 10		34.0		143	< 1.5	22.1		1490	11.7	87.2		38.7		0.0074
5/19/2016		610	< 0.060		0.21	0.49	3.6		220	45	790	< 5.0	< 0.010			3168	< 0.025	4.4		52	0.0065	86	8.6	< 0.00020			< 0.040	< 0.050			-55.1	6.60		< 10		85		240	2.7	20.2		1700	18	120		165.0		< 0.020
6/2/2017		680	< 0.080		0.42	0.46	6.4		220	84	830	< 5.0	< 0.010				< 0.025	9.2		49	< 0.0050	98	7.9	< 0.00020			< 0.040	0.052			-60.3	6.74		< 10		83		240	< 5.0	16.3		2000	24	110		84.1		< 0.020
5/10/2018		700	< 0.080		0.57	0.40	9.6		190	85	590	< 5.0	< 0.010				< 0.025	6.0		66	0.0067	110	6.9	< 0.00020			< 0.040	0.050			90.3	6.31		< 10		34		200	< 5.0	15.8		1600	28	160	143.0			< 0.020
6/12/2019		680	< 0.080		0.21	0.30	12		190	120	610	< 5.0	< 0.010				< 0.025	4.5		28	< 0.0050	110	6.1	< 0.00020			< 0.040	0.37			128.6	6.65		< 10		34		200	< 5.0	18.9		1800	32	70	28.4			< 0.020
12ABLC																																																	
5/17/2007		2590	< 0.2	1990	0.21	1.7	72		156	1760	6500	< 6.7	0.062			24065	< 0.025			6.2	< 0.005	109	1.5			< 0.2	0.12			10			7.18	< 10		1030		2260	1.9	19.6		10200	256	8		24.9	< 0.025	< 0.02
5/21/2008		2540	< 0.2	544	0.23	2.1			141	1780	5940	< 6.7	0.056			22880	< 0.025			17.6	< 0.005	104	1.2			< 0.2	0.12			11			7.2	< 10		1070		2220	< 1	23		10200	191	10.4		86	< 0.025	< 0.02
5/14/2009		2180	< 0.200	897	0.213	0.880	42		107	1030	4460	< 20	0.0466			19980	< 0.0250	2.4		8.05	0.0055	90.9	1.79	< 0.0002			0.139	< 0.050			101.2	7.19		< 10		786		1830	1.90	22.6		6370	164	65.6			< 0.0250	< 0.0200
5/10/2010		2280	0.083	8510	0.210	1.03	39		110	1160	6050	< 20	0.0442			25190	< 0.0250	3.8		7.75	< 0.0050	94.6	1.90	< 0.0002			0.121	< 0.050			77.6	6.74		< 10		805		1870	< 1.49	15.1		7980	165	< 4.0		22.4	< 0.0250	< 0.0200
5/10/2011		1880	< 0.060	732	0.18	0.72	38		88.0	1290	3790	< 100	0.036			16440	< 0.025	4.9		9.4	< 0.0050	82.6	2.1	< 0.00020			0.095	< 0.050			-28	7.33		< 9.7		636		1400	1.5	18.3		6340	112	< 4.0		40.6	< 0.025	< 0.020
5/11/2012		2480	< 0.060		0.18	0.47	45		61.4	971	3560	< 100	0.043			16011	0.0031	4.7		8.1	< 0.0050	53.2	1.4	< 0.00020			0.098	< 0.050			46.7	7.54		< 48		591		1360	2.1	18.4		6900	162	7.2		77.5	0.014	0.0040
4/9/2013		2060	< 0.060	565	0.18	0.57	47		81.7	947	3880	< 100	0.031			14565	0.0022	5.3		6.3	< 0.0050	89.0	1.5	< 0.00020			0.083	0.029			-25.5	7.43		< 48		608		1330	< 1.5	13.7		5520	161	< 4.0		29.2	0.011	0.0047
5/14/2014		2000	< 0.060		0.18	0.56	47		65.7	482	3610	< 100	0.030			13900	0.0072	3.8		8.9	< 0.0050	78.7	1.2	< 0.00020			0.095	< 0.050			-51.0	7.07		< 46		585		1290	< 1.5	16.9		5380	163	18.8		22.8	0.0093	0.0033
5/6/2015		1760	< 0.060		0.17	0.56	53		89.8	415	3580	< 50	0.024			11700	< 0.025	1.7		11.0	< 0.0050	72.4	1.7	< 0.00020			0.081	< 0.050			-51	7.34		< 51		505		1240	< 1.5	23.3		5180	101	19.2		17.1	0.0068	0.0060
5/20/2016		1600	< 0.060		0.16	0.58	57		100	280	3500	< 50	0.023			12610	< 0.025	3.0		8.7	0.0052	88	1.9	< 0.00020			0.082	< 0.050			-59.6	7.08		< 50		520		1300	3.3	20.7		5000	96	22		26.9	< 0.025	< 0.020
6/1/2017		3000	< 0.080		0.15	0.98	61		130	710	7600	< 50	0.047				< 0.025	2.9		2.1	< 0.0050	140	1.3	< 0.00020			0.17	< 0.050			62.6	7.43		< 250		1200		2700	< 5.0	21.0		10000	170	< 4.0		12.4	< 0.025	< 0.020
5/9/2018		2700	0.085		0.14	1.1	68		170	960	8400	< 10	0.038				< 0.025	3.8		6.2	< 0.025	170	1.9	< 0.00020			0.19	< 0.050			52.0	7.49		< 200		1100		2800	81	20.5		12000	170	5.6	21.4		< 0.025	< 0.020
6/12/2019		2700	< 0.080		0.16	0.41	120		260	610	8500	< 10	0.038				< 0.025	0.7		38	< 0.0050	160	3.8	< 0.00020			0.22	0.19			-51.4	7.33		< 1000		1200		2900	1300	21.4		15000	200	130	240		< 0.025	< 0.020

Analyte / Unit	Alkalinity, Bicarbonate as CaCO3 mg/L	Alkalinity, Total mg/L	Aluminum mg/L	Ammonia Nitrogen mg/L	Arsenic mg/L	Barium mg/L	Biochemical Oxygen Demand mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chloroform ug/L	Chromium mg/L	Coliform colf/100ml	Conductivity umhos/cm	Copper mg/L	Dissolved Oxygen mg/L	Hardness, Calcium Carbonate mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Mercury ng/l	Mercury ug/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Oxidation Reduction Potential, field measured millivolts	Oxidation-Reduction Potential millivolts	pH, field measured pH units	pH, field measured SU	Phenol ug/L	Phosphorus mg/L	Potassium mg/L	Silver mg/L	Sodium mg/L	Sulfate mg/L	Temperature deg c	Thallium mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Turbidity ntu	Turbitity, field measured ntu	Vanadium mg/L	Zinc mg/L
Sample Date																																																
12ABLD																																																
5/18/2007		411	< 0.2	0.28	< 0.005	0.062	< 2		97.1	< 10	5.6	< 5	< 0.01		1019	< 0.025			0.24	< 0.005	13.7	0.21			< 0.2	< 0.04			75			7.25			9.3		104	144	16.9		576	2.7	< 4		13.1		0.16
5/23/2007																																< 10															
5/21/2008		410	< 0.2	< 0.02	< 0.005	0.055			91.3	< 10	2	< 5	< 0.01		1005	< 0.025			0.048	< 0.005	17.5	< 0.01			< 0.2	< 0.04			-3.8			7.06	< 10		8.1		67.6	98.8	21.6		497	1.8	< 4		< 0		< 0.02
5/21/2009		316	< 0.200	0.079	< 0.0050	0.0388	< 2.0		72.0	< 10.0	1.8	< 5.0	< 0.0100		683	0.0279	9.1		0.035	< 0.0050	11.1	0.0183	< 0.0002			< 0.0400	3.34		196	5.61			< 10		5.96		52.3	69.5	25.4		390	1.7	< 4.0				0.975
5/18/2010		411	< 0.045	0.032	< 0.0056	0.0548	< 2.0		99.9	< 10.0	2.0	< 5.0	< 0.0100		847	0.354	5.5		0.109	0.0091	13.3	0.252	< 0.0002			< 0.0400	2.64		-113.3	7.20			< 10		7.93		52.7	84.5	21.5		481	1.9	< 4.0		37		8.82
5/9/2011		401	< 0.060	0.93	< 0.0056	0.050	< 2.0		78.2	< 10.0	6.4	< 5.0	< 0.010		783	0.067	7.0		0.18	< 0.0050	10.5	0.022	< 0.00020			< 0.040	2.3		275	7.24			< 9.4		7.1		80.4	142	19.9		487	1.9	< 4.0		2.6		0.73
5/10/2012		400	< 0.060		< 0.0056	0.057	< 2.0		102	< 10.0	31.2	< 5.0	0.0022		984	0.39	6.9		0.14	0.0069	13.8	0.033	< 0.00020			0.0035	2.3		206.0	7.09			< 10		12.1		66.1	111	16.7		515	2.0	< 4.0		1.9		1.2
4/12/2013		253	< 0.060	< 0.020	< 0.0056	0.040	< 2.0		84.0	9.2	1.1	< 5.0	< 0.010		619	0.0057	8.1		0.025	0.0040	10.8	0.0057	< 0.00020			< 0.040	2.5		198.9	7.30			< 9.5		5.6		32.3	59.1	12.5		373	0.91	< 4.0		0.6		0.015
5/12/2014		95.1	< 0.060		< 0.0056	0.033	< 2.0		65.6	5.0	1.1	< 5.0	0.0012		646	< 0.025	9.9		0.026	< 0.0050	7.5	0.0013	< 0.00020			< 0.040	3.0		170.0	5.97			< 9.4		4.3		48.8	222	23.4		430	1.4	< 4.0		0		0.010
5/6/2015		237	< 0.060		< 0.0056	0.030	< 2.0		59.8	< 10.0	2.4	< 5.0	< 0.010		449	0.0020	4.5		0.35	< 0.0050	7.9	0.047	< 0.00020			< 0.040	2.9		98	7.44			< 9.5		4.3		42.7	60.0	22.8		331	1.1	< 4.0		0		0.0028
5/19/2016		400	< 0.060		< 0.0056	0.052	< 2.0		110	< 10	1.8	< 5.0	< 0.010		957	0.057	5.9		0.18	< 0.0050	12	0.046	< 0.00020			< 0.040	3.9		127.3	7.20			< 9.9		7.1		86	120	19.1		540	1.4	< 4.0		2.1		0.39
6/2/2017		440	< 0.080		< 0.0090	0.088	< 2.0		99	< 10	210	< 5.0	< 0.010			0.31	9.9		0.19	0.0072	17	0.14	< 0.00020			< 0.040	8.9		80.7	7.41			< 10		44		210	210	19.3		1000	6.5	< 4.0		11.5		0.77
5/10/2018		330	< 0.080		< 0.0090	0.040	< 2.0		70	< 10	2.9	< 1.0	< 0.010			0.032	7.7		0.045	< 0.0050	9.9	0.018	< 0.00020			< 0.040	1.9		43.7	7.10			< 10		6.8		130	190	18.9		600	1.4	< 4.0	5.9			0.11
6/12/2019		330	< 0.080		< 0.0090	0.055	< 2.0		97	23	8.0	< 1.0	< 0.010			< 0.025	6.8		0.039	< 0.0050	12	0.013	< 0.00020			< 0.040	1.2		28.8	7.36			< 10		7.3		96	160	20.6		620	2.0	< 4.0	2.1			< 0.020
12ALC																																															
8/11/2003									1790	11800				60	9260				226	0.077	182	210										6.38			314	< 0.015	1220		17.1		13700	382	38		76.8		
12/16/2003									1540	6610				16000	27282				256	< 0.005	305	25.8										6.6			1240	< 0.015	2630		20.2		14300	1930	126		53.9		
5/14/2004	247	247	< 0.2	2070	0.27	3.4	330	< 0.005	361	2380	9710	< 5.3	0.065		36615	< 0.025			28.5	< 0.005	290	0.92	< 0.0002		< 0.2	0.12			-12.1			6.99	190		1290		3060	2.7	23.5		14900	353	60		48.6	< 0.025	0.053
8/12/2004	186	186		1510	0.29				468	3190	12300				38331				29.4	< 0.005	334	2.6										6.88			1730		3630	3.8	26.4		17300	417	61		35.3		
12/6/2004	1140	1140		1340	0.25				344	4020	14300				51200				31.2	< 0.005	287	1.1										7.19			1390		3150	2.9	20.9		22900	380	60		423		
5/18/2005							94																																								
5/18/2005		227	< 0.2	2640	0.28	5.6		< 0.005	342	3860	14300	< 5.3	0.036		64393	< 0.025			31.2	< 0.005	242	0.46			< 0.2	0.1			-131.5			6.94	< 10		1670		3420	< 1	26.5		17700	352	87		52.3	< 0.025	< 0.02
8/17/2005		2000		2620	0.39				333	2810	9140				33355				24.1	< 0.005	229	0.55										5.95			1440		3440	1.5	23.8		22900	402	99		17.8		
12/19/2005		1870		2740	0.34				385	1170	13200				27000				14.3	< 0.005	257	0.98										7.05			1860		3900	14.8	15.9		16700	275	33		110		
5/11/2006		1880	< 0.2	1820	0.28	3.7	73	< 0.005	311	3750	6790	< 5	0.045		23800	< 0.025			6.1	< 0.005	217	0.83			< 0.2	0.14			-83.1			7.4	< 10		1650		3410	1.1	24.9		15800	304	33		5.2	< 0.025	< 0.02
12ALD																																															
4/29/2003		159		< 0.02	< 0.005	0.028		< 0.005	52	13.2	2.9	< 5	< 0.01		680	< 0.025			0.056	< 0.005	5.8	0.047			< 0.2	< 0.04			189			7	< 10		7.6		104	172	7.1		474	1.6	< 3		0.1	< 0.025	< 0.02
8/12/2003									71.4	< 10					780				< 0.033	< 0.005	6.5	< 0.01										7.12			8.9		116		17.2		592	2	6		< 0		
12/19/2003									75.1	< 10					691				< 0.03	< 0.005	6.7	< 0.01										7.42			10.4		96.4		15.1		485	1.4	10		1.5		
5/13/2004	324	324	< 0.2	< 0.02	< 0.005	0.04	< 2	< 0.005	77.2	< 10	1.2	< 5	< 0.01		840	< 0.025			0.032	< 0.005	7.1	< 0.01	< 0.0002		< 0.2	< 0.04			104			7.26	< 10		10.8		92.2	101	26		494	< 1	< 3		0.9	< 0.025	< 0.02
8/11/2004	336	336		0.044	< 0.01				105	< 10	3.4				1051				0.072	< 0.005	9.4	0.038										6.97			12.4		103	193	25.7		604	2.2	< 3		1.2		
12/3/2004	381	381		0.055	< 0.01				94.4	< 10	6.5				810				< 0.03	< 0.005	13.1	0.05										7.41			10.1		62.2	35.8	22.5		440	2.1	< 3		1.7		
5/18/2005		307	< 0.2	0.062	< 0.005	0.052	< 2	< 0.005	77.4	< 10	5.2	< 5	< 0.01		1890	< 0.025			0.056	< 0.005	14.7	0.22			< 0.2	< 0.04			74.3			6.93	< 10		9.2		73.8	51.6	25.3		487	2.2	< 3		9	< 0.025	< 0.02
8/18/2005		361		0.099	0.017				94.9	< 10	3.1				928				1.8	< 0.005	13.9	5.9										6.1			8.9		41.5	22	27.1		523	2.5	4		5.6		
12/19/2005		328		< 0.02	< 0.01				89.9	< 10	2.4				534				0.44	< 0.005	12.8	0.1										7.25			10.3		38.1	32.6	17.1		390	1	< 3		9.3		
5/12/2006							< 2																																								
5/12/2006		267	< 0.2	0.038	< 0.005	0.055			99.2	< 10	2.5	< 5	< 0.01		1086	< 0.025			0.043	< 0.005	12.9	0.016			< 0.2	< 0.04						7.02	< 10		10.4		46.3	66.4	24.4		524	< 1	< 4				< 0.02
12BLC																																															
12/16/2003									750	2080				15000	17953				48.2	0.01	242	27.2										6.81			942	< 0.015	1780		18.9		10200	45.6	106		71.3		
5/14/2004							340																																								
5/14/2004	269	269	< 0.2	1390	0.12	1.4		< 0.005	288	2440	7040	< 5.3	0.087		23462	< 0.025			2.8	< 0.005	222	4.2	< 0.0002		< 0.2	0.094			-38			7.07	120		1150		2330	10.5	22.6		10300	82.7	20		45.4	0.05	0.035
8/12/2004	4670	4670		1870	0.22				166	2660	8080				30291				2.3	0.01	232	2.1										7.1			1840		2670	11.7	26.5		12800	683	12		57.4		
12/6/2004	6370	6370		1300	0.15				101	2340	8280				33000				6.6	0.0065	180	1.2										7.55			1220		2080	7.4	21		14900	805	32		34.1		
5/18/2005							120																																								
5/18/2005		248	< 0.2	1840	0.2	0.86		< 0.005	61.8	2160	7100	< 5.3	0.072		27300	< 0.025			10.2	< 0.005	105	0.66			< 0.2	0.085			-108.1			7.16	< 10		1080		1700	2.1	20.8		11100	427	5		25.2	0.034	0.022
8/17/2005		5000		1640	0.25				91.4	2010	8150				28607				10.8	< 0.005	130	0.58										6.24			1310		2360	5.6	25.5		13800	451	31		29.8		
12/19/2005		4780		1860	0.17				69.5	1000	7730				7800				7.5	< 0.005	117	0.69										7.36			1500		2600	4.4	15.6		10300	314	22		32.2		
5/11/2006		3930	< 0.2	1230	0.2	1.1	88	< 0.005	61	1800	4220	< 5	0.094		21940	< 0.025			8.3	< 0.005	97.4	1.4			< 0.2	0.13			-95			7.19	< 10		1320		2190	< 5	22.2		9760	370	6		8.2	0.043	< 0.02
12BLD																																															
4/29/2003		132		1.7	< 0.005	0.028		< 0.005	56.6	12.5	2.7	< 5	< 0.01		560	< 0.025			0.15	< 0.005	6.2	0.018			< 0.2	< 0.04			166			7.48	< 10		7.2		67.1	126	6.9		402	1.7	< 3		0.5	< 0.025	< 0.02
8/12/2003									60.8	< 10					609				0.045	< 0.005	6.1	< 0.01										7.02			8.3		70.5		18.2		386	2	7		0.1		
12/19/2003									75.7	< 10					545				< 0.03	< 0.005	6.6	< 0.01										7.45			9.4		54.2		13.7		376	1.9	20		1.3		
5/13/2004	321	321	< 0.2	< 0.02	< 0.005	0.047	< 2	< 0.005	97.1	< 10	0.68	< 5	< 0.01		785	< 0.025			< 0.03	< 0.005	8.3	< 0.01	< 0.0002		< 0.2	< 0.04			126			7.02	< 10		10.4		57.6	88.2	23.7		489	< 1	< 3		0.7	< 0.025	< 0.02
8/11/2004	183	183		< 0.02	< 0.01				113	< 10	1.9				883				0.033	< 0.005	9.4	< 0.01										6.97			11.7		69.7	119	24.7		537	2.6	< 3		1.2		
12/3/2004	501	501		< 0.02	< 0.01				85.5	< 10	5.9				730				< 0.03	< 0.005	8.9	0.019										7.36			8.6		55.6	79.1	20.9		415	2.2	< 3		1.1		
5/18/2005		354	< 0.2	0.057	< 0.005	0.046	< 2	< 0.005	70.6	< 10	4.3	< 5	< 0.01		967	< 0.025			< 0.03	< 0.005	11.8	< 0.01			< 0.2	< 0.04			153			7.2	< 10		7.8		140	96.6	20.7		596	1.8	< 3		1.2	< 0.025	< 0.02
8/18/2005		352		0.1	< 0.01				81	< 10	3.4				1457				0.046	< 0.005	11.2	0.055										6.29			8		81.4	53.4	25.7		510	1.8	3		9.9		
12/19/2005		360		< 0.02	< 0.01				87.3	< 10	2.8				564				0.091	< 0.005	12.8	0.011										7.32			9.4		87.1	38.4	16.9		512	1.5	< 3		3.8		
5/12/2006							< 2																																								
5/12/2006		302	< 0.2	0.11	< 0.005	0.047			86.1	< 10	2.5	< 5	< 0.01		858	< 0.025			< 0.03	< 0.005	13.8	< 0.01			< 0.2	< 0.04			56			7.03	< 10		8.3		66.5	37.3	20.9		482	< 1	< 4		5.8		< 0.02
1BLC																																															
5/9/2002														< 2																																		
1LC																																															
3/2/1994				694	0.62	2.2		0.019	905	589	2970	< 4	0.036		9600	0.078		882	212	0.081	199	6.5			0.94	0.26			<			7.04	260	1.07		< 0.041	879	< 7	10.1		5790	157	743	< 0		1.4	0.28
8/23/2001		2380		438	0.15	0.96		< 0.005	593	708	3100	< 5	< 0.01	8700	3230	< 0.025			49.4	< 0.005	196	3.8			< 0.2	0.053						6.71	< 10		333	< 0.015	889	215	16.7		2950	121	109			0.6	< 0.02
12/10/2001									393	593				3500	3000				28.2	< 0.005	186	3										7.01			239	< 0.015	684		8.4		4090	192	82				
5/9/2002	1590	1590		322	0.057	1.1		< 0.005	659	1200	2890	< 5	< 0.01		11378	< 0.025			68.8	< 0.005	170	5.1			< 0.2	< 0.04						6.8	< 10		256	< 0.015	672	106	10.3		6010	77	175			0.2	0.02
8/13/2002									940	716				50					60.1	< 0.005	230	4										6.64			425	< 0.015	1150				6180	103	208		33.7		
12/9/2002									457	565				110	10350				78.9	0.011	193	3.3										6.74			203	< 0.015	574		6.6		3980	98.1	144		138		
4/30/2003		796		196	0.063	0.36		< 0.005	278	258	2630	< 5	0.01	28	6819	< 0.025			48.3	< 0.005	100	4.3			< 0.2	< 0.04			138			6.31	< 22		113	< 0.015	333	132	<		2540	37.2	110		< 0	0.14	0.042
8/11/2003									612	1050				< 10	20299				25.8	< 0.005	205	1.4										6.85			1400	< 0.015	1910		26.4		12200	24.4	68		47.2		
12/16/2003									732	1120				88	17189				28.5	< 0.005	224	1.5										7.24			1560	< 0.015	2210		9.6		11000	14.2	76		20.2		
5/14/2004	287	287	< 0.2	1470	0.19	2.6	24	< 0.005	653	1310	9100	< 5	< 0.01		27581	< 0.025			31.6	< 0.005	240	1.6	< 0.0002		< 0.2	0.057			-10.2			6.97	< 10		1540		2190	< 1	18.5		15000	22.8	72		40.4	0.075	< 0.02
8/12/2004	3260	3260		1630	0.2				640	2690	9070				27665				32.5	< 0.005	246	1.4										6.94			1600		2250	2.8	15.1		12800	63.8	91		122		
12/6/2004	1730	1730		1240	0.063				583	2460	8680				30200				13.9	< 0.005	249	1.1										7.47			1590		2350	< 1	10.8		13200	103	65		55		
5/24/2005							29																																								
5/24/2005		2440	< 0.2	1740	0.14	1.6		< 0.005	408	1300	7320	< 5.3	< 0.01		25120	< 0.025			19.6	< 0.005	202	0.87			< 0.2	0.063			-15.4			6.98	< 10		1380		1740	< 1	9.5		10700	129	67		68	0.064	< 0.02
8/17/2005		3400		1360	0.19				506	1180	8250				24889				29.4	< 0.005	238	1.1										5.86			1380		2100	2.1	16.9		15300	132	89		128		
12/22/2005		7440		1140	0.17				452	850	9100				24132				25.8	< 0.005	236	0.81										6.15			1400		2050	< 1	7.9		10900	101	76		215		
5/16/2006							30																																								
5/16/2006		4430	< 0.2	977	0.18	2		< 0.005	454	1070	8310	< 5	< 0.01		23560	< 0.025			28.4	< 0.005	248	0.94			< 0.2	0.08			-107			6.85	< 10		1450		2050	< 1	11.7		8800	142	91		116	0.084	< 0.02

Appendix H-4
WMDSM Crossroads Landfill
Historical Data Table: Leachate Collection and Leachate Detection Data

Analyte / Unit	Alkalinity, Bicarbonate as CaCO3 mg/L	Alkalinity, Total mg/L	Aluminum mg/L	Ammonia Nitrogen mg/L	Arsenic mg/L	Barium mg/L	Biochemical Oxygen Demand mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chloroform ug/L	Chromium mg/L	Coliform colf/100ml	Conductivity umhos/cm	Copper mg/L	Dissolved Oxygen mg/L	Hardness, Calcium Carbonate mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Mercury ng/l	Mercury ug/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Oxidation Reduction Potential, field measured millivolts	Oxidation-Reduction Potential millivolts	pH, field measured pH units	pH, field measured SU	Phenol ug/L	Phosphorus mg/L	Potassium mg/L	Silver mg/L	Sodium mg/L	Sulfate mg/L	Temperature deg c	Thallium mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Turbidity ntu	Turbitity, field measured ntu	Vanadium mg/L	Zinc mg/L
Sample Date																																																	
1LD																																																	
10/28/1993				12.4			< 12		140	53	79.9			5	1191			140	66.9	< 0.0008	72	6.1										6.6		< 0.1			52.7	< 3.5	10		787	14.7	112	< 0					
2/9/1994				11.2			7		122	61	80				1450			130	78.8	0.0009	72	5										6.97		< 0.1			52.6	58	5.8		774	14.2	364	< 0					
2/22/1994														22	<																	<							<					< 0					
5/3/1994				10.7			8		110	49	69	< 2	< 0.0058	<	1185			110	48.4	< 0.0008	59.2	5.22										6.79	< 1	< 0.1			41.4	144	10.3		741	11.634	82	< 0					
8/3/1994				5.5			< 6		131	43	96.4			<	1527			131	52.9	< 0.0009	68.6	5.47										7.29		< 0.2			49	< 7	12.1		764	10.1	95	< 0					
11/10/1994		596		8.91			4		134	41	142			<	741			134	30.6	< 0.0009	74.9	5.34										6.27		< 0.2			64.2	< 7	11		853	11.1	64	< 0					
2/7/1995				8.52			9		130	50	103			<	1193			130	78.1	< 0.0009	78.4	5.27										6.94		< 0.2			62.1	10.9	2		857	12.5	111	< 0					
5/10/1995				8.25			< 6		115	51	122	< 0.6	< 0.003	<	1236			115	42.4	< 0.0009	80.4	4.85										6.67	< 2	< 0.2			59.3	< 7	9.4		867	12.9	85	< 0					
8/30/1995				8.01			10		131	63	163			<	1476			131	68.2	< 0.0009	117	5.16										6.65		< 0.2			83.6	12.9	16		1060	15.6	95	< 0					
12/12/1995		640		6.04			7		159	53	251			<	931			159	43.4	< 0.0009	86.4	6.76										6.58		< 0.2			82.3	50.3	7.2		1090	13.3	52	< 0					
2/28/1996				8.03			10		162	69	251			<	1320			162	30.2	< 0.0009	117	6.94										6.83		< 0.2			89.3	26.3	7		1150	21.1	110	< 0					
5/30/1996				21.8			2		274	65	729	< 0.4	0.0039	<	2700			274	31.7	< 0.0009	96	11.7										6.95	< 2	< 0.2			171	31.3	9.7		2040	19	73	< 0					
8/28/1996									187	70					2130				62.5	< 0.001	145	8.24										7.03			19.3		109		14.1		1330	16.1	130	< 0					
10/29/1996	800	800		9.32					216		528				2040				91.4		156	10.1										7.19			21.6		119	48.6	10.7		1560	16							
12/2/1996									229	87					1827				96.1	< 0.001	173	11.1										6.89			20.8		138		10.9		1480	16.9	168	< 0					
5/5/1997		761		12.5	0.162	0.2		< 0.0044	223	86	544	< 0.4	< 0.004		1401	< 0.01		223	86.6	< 0.001	175	9.09			< 0.049999	0.0301						6.44	< 2		33.1		138	< 3.5	13.9		1580	16.5	185	< 0		0.0265	< 0.01		
9/3/1997									174	76					2200				86.2	< 0.001	176	5.75										6.41			21.5		134		14.4		1700	18.2	168	< 0					
11/24/1997									166	66					2205				76.9	< 0.001	151	5.14										6.65			27.2		127		10		2460	16.4	108	< 0					
4/23/1998		811		15	0.163	0.182		< 0.004	193	154	547	< 0.4	< 0.004		2230	< 0.011		193	71.9	0.0026	169	6.2			< 0.099999	< 0.018999						6.34			27.6		143	< 3.5	9.1		1740	15.6	138	< 0		< 0.007	< 0.01		
8/21/1998									187	68					2270				127	< 0.001	150	4.96										6.37	< 1		25		138		12.2		1550	14.3	209	< 0					
12/2/1998									176	52					1316				62.4	0.035	158	4.6										6.2			26.6		149		10.8		1420	17.8	66.5	< 0					
5/7/1999		822		18.8	0.22	0.2		< 0.005	180	42.8	453	< 5	< 0.01		565	< 0.025			71.9	< 0.005	162	4.4			< 0.2	< 0.04						6.39	< 10		23.8		143	14.3	10.2		1540	182	65	< 0		< 0.025	< 0.02		
8/10/1999									172	46					579				66.7	< 0.005	155	4.4										6.66			27.6		150		15.8		988	14.4	119						
11/17/1999									160	48.4					2310				63.2	< 0.005	130	4.8									6.67			27.4		114		10.1		1360	15.2	113						
4/28/2000		1110		19.5	0.31	0.2		< 0.005	174	40.6	426	< 5	< 0.01		2310	< 0.025			65.4	< 0.005	135	4.9			< 0.2	< 0.04						6.93	< 10		26.2		142	8.9	10		1330	16.6	129			< 0.025	< 0.02		
8/16/2000									155	47.4					2340				71.4	< 0.005	140	4.4										6.32			26.6		148		13		1360	21.8	206						
12/13/2000									150	48.8					1999				66.8	< 0.005	133	4.3										7.04			22.2		126		4.4		1180	64	131						
5/10/2001		784		19.6	0.22	0.17		< 0.005	169	49.7	361	< 5	< 0.01		1573	< 0.025			62.4	< 0.005	130	5.8			< 0.2	< 0.04						6.86	< 10		24.4		124	25.3	13.7		1230	18.7	21			< 0.025	< 0.02		
8/7/2001									160	32.7					1394				54.7	< 0.005	139	5										6.41			23.2		120		20.5		1350	17.7	48						
12/4/2001									152	26.2					2253				54.1	< 0.005	127	4.3										6.47			18.9		102		10		995	22.6	89						
5/8/2002	663	663		17.1	0.17	0.14		< 0.005	145	49.5	364	< 5	< 0.01		2179	0.035			56.1	< 0.005	114	4.7			< 0.2	< 0.04						6.75	< 10		17.4		92.2	11.7	12.7		940	14.3	116			< 0.025	< 0.02		
8/12/2002									149	37.4									71.3	< 0.005	128	4										6.3			18.3		112				1270	14.1	124		116				
12/10/2002									168	39.5					2499				87.3	< 0.005	137	4.9										6.74			17.2		98		7.4		1170	12.2	162		103				
4/29/2003		627		15.7	0.072	0.14		< 0.005	169	52.2	340	< 5	< 0.01		2311	< 0.025			49.3	< 0.005	144	5.5			< 0.2	< 0.04			-125			6.54	< 10		21		114	6.4	15.3		1390	13.2	93		62.6	< 0.025	0.023		
8/12/2003									61.4	< 10					1113				4.4	< 0.005	30.2	4.6										6.49			7.4		26.5		21.1		380	3.8	15		6				
12/19/2003									151	36.1					2430				20	< 0.005	146	3.1										7.42			15.4		112		8.5		1280	12.3	46		50				
5/13/2004	705	705	< 0.2	12.7	0.17	0.12	6.7	< 0.005	140	44.7	296	< 5	< 0.01		2188	< 0.025			36.6	< 0.005	117	3.6	< 0.0002		< 0.2	< 0.04			-70			6.68	< 10		16.1		95.6	16.7	19.8		1180	12.7	82		8	< 0.025	< 0.02		
8/11/2004	459	459		13.3	0.13				142	42.9	471				2191				42.2	< 0.005	109	3.8										6.53			16.5		99.9	7.1	15.5		1190	14	27		30.5				
12/3/2004	421	421		15.9	0.18				145	52.1	303				2180				53	< 0.005	114	3.7										6.6			16.3		98.8	8.1	9.3		1110	12.8	66		9.7				
5/24/2005		650	< 0.2	15.3	0.32	0.13	14	< 0.005	140	43	279	< 5	< 0.01		2543	< 0.025			64.3	< 0.005	95.2	3.5			< 0.2	< 0.04			-15.2			6.1	< 10		18		86.4	< 1	10.1		1160	13.9	80		94.5	< 0.025	< 0.02		
8/18/2005		644		12.8	0.24				130	36.7	298				2421				48.8	< 0.005	83.9	3										5.42			16.2		76.7	7.1	14.4		1220	13.5	106		14.1				
12/22/2005		496		12.4	0.18				158	51.7	303				2535				48.2	< 0.005	99.3	3.7										6.92			21.3		94.3	< 1	7.5		1130	11.9	110		46.4				
5/16/2006		562	< 0.2	9.3	0.011	0.088	12		165	36.9	293	< 5	< 0.01		1910	< 0.025			32.1	< 0.005	95.1	3.8			< 0.2	< 0.04			-38			6.21	< 10		21.8		94.1	1.2	11.7		1110	10	48		34		< 0.02		
2LC																																																	
10/27/1993															<														<			<						<					< 0					
2/22/1994															<														<			<						<					< 0					
8/23/2001		398		198	0.024	2.4		< 0.005	1260	11.6	4430	< 5	< 0.01	6600	6080	< 0.025			12.1	0.0052	98	5.5			< 0.2	< 0.04						7.42	< 10		1020	< 0.015	1580	12	21		8380	15	204			< 0.025	< 0.02		
8/11/2003									139	20.5				< 10	2171				14.1	0.013	36.7	5										6.44			58	< 0.015	92.2		26		982	8.7	18		29.8				
12/16/2003									609	957				1500	17079				28.7	< 0.005	263	3.5										7.31			876	< 0.015	1480		9.5		7340	51.4	109		188				
5/14/2004	1460	1460	< 0.2	266	0.052	0.38	< 6	< 0.005	113	842	883	< 5	< 0.01		6455	< 0.025			33.8	< 0.005	83.6	14.2	< 0.0002		< 0.2	< 0.04			-10.8			7.03	< 10		299		316	< 1	17.5		2220	21.8	89		64.1	< 0.025	< 0.02		
8/12/2004	1270	1270		305	0.016				162	341	1580				7030				16.4	< 0.005	96.8	13.8										6.79			399		498	1.1	15.9		3130	30.7	28		82.4				
12/6/2004	776	776		677	0.032				220	763	3520				14700				10.6	< 0.005	208	8.1										7.77			798		988	52	6.7		7310	73.4	206		12.3				
5/24/2005							15																																										
5/24/2005		3260	< 0.2	985	0.018	0.48		< 0.005	108	927	2610	< 5	< 0.01		13420	< 0.025			3	< 0.005	174	2.9			< 0.2	0.048			-14.5			7.22	< 10		736		719	< 1	10		4630	97.3	10		27.2	< 0.025	< 0.02		
8/17/2005		5340		1660	0.015				92.5	1010	3440				17454				1.7	< 0.005	282	0.75										6.18			998		1090	< 1	14.2		7270	146	13		16.1				
12/22/2005		3480		1270	< 0.01				165	615	5490				17960				0.91	< 0.005	351	0.41										6.79			1330		1590	158	2.8		8500	81.8	7		9.2				
5/16/2006							32																																										
5/16/2006		4760	< 0.2	1140	0.0093	0.88		< 0.005	150	294	5320	< 5	< 0.01		19270	< 0.025			0.58	< 0.005	336	0.23			< 0.2	0.049			-22			7.13	< 10		1260		1460	121	11.2		8760	77.4	15		5.1	< 0.025	0.021		

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
2LD																																																
10/28/1993				207			6		182.4	169	842			<	4680			190	11.67	< 0.0008	164.7	12.76										7.07		< 0.1			448.8	< 1.399999	11		2840	41.3	31	< 0			
2/9/1994				227			< 24		328	200	2270			12400	6700			321	1.2	< 0.0008	238	16.1										6.45		< 0.1			631	23.4	3.1		4350	27.4	6	< 0			
5/4/1994				30.8			< 6		395	52	531	< 2	0.0059	540	2500			395	1.15	0.0016	211	20.6										6.94	< 1	< 0.1			576	18.9	9.6		980	8.2	37	< 0			
8/3/1994				4.06			2		143	40	145			6100	1722			143	1.75	< 0.0009	32.5	5.47										7.01		< 0.2			46.2	33.3	13.1		710	7.3	12	< 0			
11/10/1994		384		2.87			< 2		130	24	68.5			<	466			130	6.12	< 0.0009	27.1	7.44										6.56		< 0.2			27.3	34.3	10.6		537	6.3	6	< 0			
2/7/1995				2.28			2		129	24	60.2			<	792			129	0.0265	0.001	29.2	0.786										6.91		< 0.2			22.8	33.3	6.1		519	5.6	28	< 0			
5/10/1995				1.04			3		109	24	45.8	< 0.6	< 0.003	<	662			109	1.18	< 0.0009	21.7	5.49										6.62	< 2	< 0.2			14.3	34.6	16.5		460	5.1	5	< 0			
8/30/1995				3.51			3		121	34	88.5			<	878			121	19.5	< 0.0009	46.8	6.08										6.9		< 0.2			42.4	19	15.7		679	9	28	< 0			
12/12/1995		389		2.68			3		142	31	134			<	567			142	13.5	< 0.0009	30.7	9.7										8.2		< 0.2			36.6	59	5.4		671	7	210	< 0			
2/28/1996				3.24			3		124	30	94.7			<	697			124	1.8	< 0.0009	31	8.7										7		< 0.2			32.5	33.7	8.1		561	8.9	5	< 0			
5/30/1996				22.4			3		118	79	276	< 0.4	0.0036	<	1570			118	13.2	< 0.0009	58.6	8.56										7.05	< 2	< 0.2			90.6	33.1	11.1		930	17.5	31	< 0			
8/28/1996									180	51					1734				7.72	0.0013	45.3	12.1										6.79		63.3			129		13.6		1240	9	14	< 0			
10/29/1996	380	380		11.7					158		333				1340				6.68		36	12.8										7.01		43.5			96	27.7	10.3		1000	8.2					
12/2/1996									140	46					1201				6.09	< 0.001	31.7	12.8										7.17		37.7			79.7		11		919	7.3	13	< 0			
5/5/1997		350		5.2	0.0179	0.126		< 0.0044	130	43	181	< 0.4	< 0.004		760	< 0.01		130	5	< 0.001	34.2	16			< 0.049999	< 0.018999						6.31	< 3		26.1		55.4	19.1	9.6		746	6.4	12	< 0		< 0.007	0.0169
9/3/1997															<																								<				< 0				
11/24/1997															<																								<				< 0				
4/23/1998		349		1.29	0.0217	0.0707		< 0.004	128	45	106	< 0.4	< 0.004		733	< 0.011		128	3.93	0.0016	29.6	19.3			< 0.099999	< 0.018999						6.55		9.9			24.4	15.7	8.6		595	4.7	7	< 0		< 0.007	0.011
8/21/1998									136	59					930				33.8	0.0024	26.6	22.5										6.54	< 1	10.5			27.4		14.1		610	7.5	64	< 0			
12/2/1998									116	14.9					640				3.3	0.011	27.9	15.8										6.38		10.6			28.2		10.4		430	5.2	15	< 0			
5/7/1999		343		1	0.015	0.058		< 0.005	101	< 10	62.1	< 5	< 0.01		196	< 0.025			6.7	< 0.005	23.6	14			< 0.2	< 0.04						6.51	< 10	7.5			20.6	16.7	8.8		442	75.6	8	< 0		< 0.025	< 0.02
8/10/1999									103	12.1					233				4.5	< 0.005	27.1	13.4										6.65		9.4			25.8		15.9		539	5.3	10.5				
11/17/1999									116	30.3									3.5	< 0.005	41.7	15.9												23.4			60.3				775	7.4	7				
4/28/2000		385		5	0.019	0.1		< 0.005	123	22.8	151	< 5	< 0.01		1061	< 0.025			13.6	< 0.005	43.2	16.8			< 0.2	< 0.04						7.16	< 10	16			55	25	11.6		674	8.7	41.5			< 0.025	< 0.02
8/16/2000									111	10.4					1117				8.4	< 0.005	39.3	14.3										6.38		14.6			49.4		12.9		701	7.3	12.5				
12/13/2000									106	14					857				11	< 0.005	34.6	12.8										7.52		11.2			37.1		7.7		520	23.8	20				
5/10/2001		341		2	0.016	0.087		< 0.005	116	20.2	89.5	< 5	< 0.01		670	< 0.025			17.9	< 0.005	35	15.6			< 0.2	< 0.04						6.98	< 10	10.6			30.4	34.8	12.4		1000	6.4	12			< 0.025	0.033
8/7/2001									114	< 10					756				10.1	0.0098	34	14.8										6.42		10.5			30.4		23.1		599	7.3	13				
12/4/2001									114	< 10					1004				9.8	< 0.005	36.3	13										6.92		9.6			34		8.6		668	10	15				
5/8/2002	301	301		0.64	< 0.005	0.061		< 0.005	93.5	15	53.3	< 5	< 0.01		782	< 0.025			10.5	0.009	22.6	12			< 0.2	< 0.04						6.99	< 10	6.8			15.6	27	10.1		458	4.3	9			< 0.025	< 0.02
8/12/2002									117	< 10									21.6	0.011	30	14.4										6.19		10.6			28				604	6.8	19		49.6		
12/10/2002									110	< 10					782				4.7	0.0069	28.2	13.5										6.97		8.2			19.1		4.9		487	3.7	5		18.6		
4/29/2003		344		1.7	0.028	0.11		< 0.005	130	34.9	202	< 5	< 0.01		1335	< 0.025			23.5	< 0.005	45.3	12			< 0.2	< 0.04		-132				6.81	< 10	18.6			53.9	15.9	11.3		817	7.6	35		64.2	< 0.025	0.031
5/13/2004	288	288	< 0.2	0.35	< 0.005	0.04	< 2	< 0.005	71	< 10	26.3	< 5	< 0.01		723	< 0.025			4.1	< 0.005	16.5	8.6	< 0.0002		< 0.2	< 0.04		37				6.69	< 10	6.2			31.7	36.3	15.3		360	1.6	9		6.3	< 0.025	< 0.02
8/11/2004	249	249		0.3	0.012				74.5	< 10	26				787				5.2	< 0.005	18	9.2										6.5		5.9			27.9	26.6	15		371	4.2	6		5.3		
12/3/2004	206	206		0.46	< 0.01				79.5	19.7	29.7				693				0.47	< 0.005	20.4	10.8										7.07		5.9			26.9	22.5	9.5		383	3	3		11.5		
5/24/2005		330	< 0.2	0.44	< 0.005	0.028	2.1	< 0.005	80.4	< 10	36.4	< 5	< 0.01		759	< 0.025			0.44	< 0.005	22	10.1			< 0.2	< 0.04		-15.1				6.46	< 10	5.9			23.7	24	9.9		396	4.4	< 3		12.2	< 0.025	< 0.02
8/18/2005		332		0.59	< 0.01				89	< 10	41.8				1079				1.1	< 0.005	24.6	12.7										5.81		6.1			26.2	13.8	13.8		500	3.8	38		6		
12/28/2005		246		0.53	0.046				83.8	< 10	51				551				32.1	< 0.005	23.9	12.6										5.73		6			25.7	18.4	8.7		433	3.3	63		256		
5/16/2006		281	< 0.2	0.27	< 0.005	0.035	< 2		89.3	25.6	48.7	< 5	< 0.01		803	< 0.025			0.1	< 0.005	24.2	13.8			< 0.2	< 0.04		93.7				6.36	< 10	5.6			24.1	14.8	12		451	1.6	< 4		1.7		< 0.02
3LC																																															
2/22/1994															<													<												<				< 0				
8/23/2001		2000		769	0.18	2.2		< 0.005	666	116	3840	< 5	< 0.01	3000	3860	< 0.025			34	< 0.005	201	1.9			< 0.2	0.058						6.86	< 10	1410	< 0.015	2010	11.5	20.8		7050	72.8	201			0.068	< 0.02
12/10/2001									846	1030				5200	4560				49.5	0.0063	212	3.1									7.01		1590	< 0.015	2300		9.1		2290	113	490				
5/9/2002	2050	2050		1260	0.12	2		< 0.005	580	515	6540	< 5	0.014	240	22919	< 0.025			26.2	0.026	185	2.6			< 0.2	0.052						7.2	< 10	1230	< 0.015	1690	3.9	10.6		10500	73.1	162			0.067	0.072
8/13/2002									1040	1380				1900					26	0.018	225	1.8										6.88		2060	< 0.015	3020				13500	55	344		30.3		
12/9/2002									717	1020				52	24931				18.3	0.022	217	1.9										6.91		1340	< 0.015	1920		5.5		11500	49.6	176		147		
4/30/2003		1740		990	0.14	2		< 0.005	721	1130	6840	< 5	< 0.01	1800	19697	< 0.025			19.4	< 0.005	197	2.2			< 0.2	0.048		141				6.74	< 22	1360	< 0.015	1920	35.2	<		12400	14.6	260		< 0	0.07	< 0.02
8/11/2003									626	546				< 10	11408				69.5	< 0.005	281	4.1										6.54		340	< 0.015	874		19.2		8020	60.5	120		12.4		
12/16/2003									579	1130				1600	17505				13.7	< 0.005	257	2.8										7.27		771	< 0.015	1400		9.6		7890	46.5	21		186		
5/14/2004	2250	2250	0.65	817	0.16	0.93	72	< 0.005	577	994	4650	< 5	< 0.01		16342	< 0.025			6.4	< 0.005	280	3.4	< 0.0002		< 0.2	0.1		-83				7.03	< 10	354		1100	1.2	19.1		6930	141	11		45.6	0.45	< 0.02
8/12/2004	4580	4580		1130	0.16				455	794	3520				16723				19.8	< 0.005	305	2										7.06		346		1220	27.6	15.9		7100	274	46		205		
12/6/2004	3150	3150		939	0.12				276	1270	3820				17600				4.6	< 0.005	218	1.2										7.61		243		803	3	9.7		7070	271	26		55		
5/24/2005							46																																								
5/24/2005		3740	0.34	1090	0.12	0.73		< 0.005	394	1740	3600	< 5.3	< 0.01		16640	< 0.025			4.5	< 0.005	269	1.8			< 0.2	0.11		-16.6				7.15	< 10	406		1040	1	10.1		7290	242	17		44.1	0.47	< 0.02
8/17/2005		5410		1280	0.1				346	1010	4150				16730				4.9	< 0.005	240	1.4										5.82		377		1050	6.1	15.1		8170	240	5		58.4		
12/22/2005		4440		1080	0.11				383	863	4340				16142				5.2	< 0.005	287	1.4										6.4		429		1240	4.1	7.3		7110	211	4		69.2		
5/16/2006							32																																								
5/16/2006		4210	0.28	762	0.11	1.1		< 0.005	562	1320	4520	< 5	0.012		16590	< 0.025			7.4	< 0.005	348	1.7			< 0.2	0.14		-94				6.87	< 10	588		1500	5.3	11.5		6730	259	< 4		27.6	0.55	< 0.02

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
3LD																																																
10/27/1993				< 0.02			< 2		72.35	14	38.7			900	496			70.1	0.0532	< 0.0008	16.79	0.0216										7.46		< 0.1			16.78	36.8	11		326	4.8	< 3	< 0				
2/9/1994				< 0.02			2		59.4	8	24.9				572			64.3	0.069	0.0008	14.2	0.031										7.85		< 0.1			13.5	28.1	5.3		194	2.7	< 3	< 0				
2/22/1994														5800	<																	<							<				< 0				
5/3/1994															<																	<							<				< 0				
8/3/1994				< 0.02			< 2		97.7	< 8	106				1004			97.7	2.83	< 0.0009	29.5	0.0641										7.33		< 0.2			28.8	31.4	14.1		541	2.1	13	< 0				
11/10/1994		309		< 0.02			< 2		139	13	197			700	672			139	1.44	< 0.0009	53.1	0.154										6.8		< 0.2			49.8	12.6	10.9		750	3.3	16	< 0				
2/7/1995				< 0.02			2		98.1	< 8	112			11	737			98.1	1.08	< 0.0009	35.1	0.0171										7.98		< 0.2			35.2	24.3	4.6		502	1.8	< 3	< 0				
5/10/1995				< 0.02			3		88.2	19	114	< 0.6	< 0.003	2	738			88.2	0.127	< 0.0009	32.7	0.0127										7.05	< 2	< 0.2			29.3	24.3	8.7		547	1.9	3	< 0				
8/30/1995				< 0.02			< 2		180	15	326			92	1190			180	0.314	< 0.0009	68.5	0.0215										7.33		< 0.2			68.5	45.1	16.6		1110	3.4	< 3	< 0				
12/12/1995		332		< 0.02			4		380	41	1170			<	1963			380	0.477	< 0.0009	81.4	1.59										7.34		< 0.2			277	68.1	4.6		2590	3.5	22	< 0				
2/28/1996				11.2			4		270	40	722			<	2460			270	0.427	< 0.0009	72.6	3.49										6.83		< 0.2			179	37.7	7.5		1690	9.1	< 3	< 0				
5/15/1996															<																	<							<				< 0				
8/28/1996									686	195					6500				0.67	< 0.001	137	14.7										7.01			357		531		13.8		7350	12.9	8	< 0				
10/29/1996	764	764		131					833		3550				5670				0.202		157	9.6										7.35			402		807	24.3	12.2		7000	14.8						
12/2/1996															<																	<							<				< 0				
5/5/1997															<																	<							<				< 0				
9/3/1997									491	118					5380				0.41	< 0.001	133	2.49										6.77			208		396		13.9		4860	14.6	3	< 0				
11/24/1997									429	133					2297				0.0461	0.0014	115	1.96										7.25			214		365		8.4		5170	17	5	< 0				
4/23/1998		536		48.9	< 0.003	0.3		< 0.004	289	49	844	< 0.4	< 0.004		2780	0.0243		289	0.402	< 5	79.6	1.91			< 0.099999	0.0442						7.02			129		227	34.1	8.8		2610	12.2	6	< 0		< 0.007	0.0233
8/21/1998									404	95					4620				0.667	< 0.001	124	2.3										6.84	< 1		265		356		14.6		3910	17.6	< 3	< 0				
12/2/1998									376	84.4									0.61	0.038	166	1.6													190		358				2690	21.2	15					
5/7/1999		675		70.7	0.0054	0.62		< 0.005	614	97.4	2000	< 5	< 0.01		524	0.039			1.9	< 0.005	184	2.5			< 0.2	0.069						7.12	< 10		235		694	51.8	14.6		4560	20.3	8.5	< 0		< 0.025	< 0.02
8/10/1999									463	83.6					1411				0.35	< 0.005	200	2.8										6.95			244		555		16.2		6090	22.3	8				
11/17/1999									678	201					7890				0.11	< 0.005	182	5.7									7.58				235		598		8.2		5040	14.7	5				
4/28/2000		709		107	0.017	0.71		< 0.005	680	65.9	2230	< 5	< 0.01		1090	< 0.025			0.21	< 0.005	176	3.2			< 0.2	0.058						7.1	< 10		293		775	45.2	8		4950	13.6	< 3			< 0.025	< 0.02
8/16/2000									631	75.3					8000				0.046	< 0.005	181	2.7										6.35			260		731		13.9		5290	13	22.5				
12/13/2000									728	72.6					5320				3.3	< 0.005	188	2.9										7.65			274		746		4.6		4960	26.2	13				
5/10/2001		590		58.3	< 0.005	1.1		< 0.005	832	78.3	3050	< 5	< 0.01		6050	0.025			0.11	< 0.005	217	6.3			< 0.2	0.075						6.71	< 10		326		814	84.5	12.7		6110	11.3	12			< 0.025	0.024
8/7/2001									949	69.4					3330				0.08	< 0.005	244	8.3										6.37			371		945		23.6		6550	10.4	33				
12/4/2001									1100	69.7					11369				< 0.035	< 0.005	221	7.4										7.02			413		825		9.5		7920	14.1	5				
5/8/2002	322	322		50	< 0.005	1.3		< 0.005	984	< 10	4440	< 5	< 0.01		13040	0.035			0.16	0.0053	222	10			< 0.2	0.068						6.92	< 10		447		1060	62.7	10.7		8080	6.8	< 3			< 0.025	0.023
8/12/2002									1230	88.2									0.2	0.0066	240	11										6.24			535		1250				9280	8	< 3	1			
12/10/2002									986	95.6					12527				0.076	0.0053	261	11.9										7.41			467		997		5.4		8350	8.4	8		0.9		
4/29/2003		421		82	< 0.005	1.4		< 0.005	925	86.4	4150	< 5	< 0.01		12400	0.05			0.26	< 0.005	230	12			< 0.2	0.078			-93			7.04	< 10		509		1070	32.8	10.6		7530	7.3	73.3		6.3	< 0.025	0.066
5/13/2004	1000	1000	< 0.2	122	< 0.005	0.81	< 2	< 0.005	708	93.3	3720	< 5	< 0.01		10378	0.047			0.048	< 0.005	219	10.7	< 0.0002		< 0.2	0.066			221			6.89	< 10		340		834	51.1	15.1		3660	17.3	< 3		2.3	< 0.025	< 0.02
8/11/2004	96.7	96.7		127	< 0.01				605	301	4270				9372				0.077	< 0.005	203	9.1										6.8			335		804	38.7	16.5		5880	18.6	< 3		2.6		
8/18/2005		1780		218	< 0.01				306	107	1890				7299				0.22	< 0.005	205	10.6										5.62			262		499	< 1	13.3		4860	31.2	< 3		5.9		
12/22/2005		2520		322	0.01				304	147	2090				8282				2	< 0.005	280	11.7										7.6			378		596	< 1	9		3570	38.4	8		24.8		
5/16/2006		2190	< 0.2	291	0.034	0.51	4.8		257	186	1970	< 5	< 0.01		8484	< 0.025			6	< 0.005	290	10.8			< 0.2	0.12			-61.1			7.04	< 10		429		689	< 1	11		4450	28.3	14		64		< 0.02
45LC																																															
11/12/1992	2	10000		380	0.4	2	300	< 0.005	390	1100	1700		< 0.01		3	< 0.02			590	< 0.005	230	4.2			< 0.3	0.5						7.7		0.1		< 0.02	1100	1300	8.8		7600	0.2	18000			26	0.4
1/28/1993	3.1	4200		410	0.9	3.7	510	0.01	280	5600	1400		0.04		9540	0.11			690	< 0.005	220	3.2			0.3	0.89						8.27		33		< 0.02	940	1100	2		6600	0.53	5400			49	0.21
5/6/1993	0.5	870		280	1.1	8.6	400	0.016	3100	700	4700		0.17		10500	0.03			290	< 0.005	120	19			< 0.3	0.75						7.33		1.1		< 0.02	1200	570	17.7		10000	0.21	1700			110	< 0.00001
8/11/1993	< 0.1	6700		510	0.8	27	900	0.029	1500	850	2700		0.17		18500	0.05			1500	< 0.005	170	7.2			< 0.3	0.29						7.3		78		< 0.02	1500	370	17.2		10000	0.4	10000			120	< 0.00001
5/2/1994		1479		250	0.0355	0.913	183	< 0.0017	801	431	3910	< 10	< 0.0058	20000	9500	0.0403		801	29.4	< 4	94	6.26			0.11	0.0524			10			7.28	121	0.151		< 0.008	1260	98.8	10.6		8060	70.277	123	< 0		0.231	0.0184
8/3/1994		395		378	0.1	1.42	< 120	< 0.003	623	588	5360	< 3	0.0038		19330	0.0072		623	27.9	< 9	137	2.92			< 0.049999	0.0719			<			7.55	250	0.29		< 50	1430	< 7	16.3		11200	68.6	195	< 0		0.639	0.0209
11/9/1994		2080		376	0.034	1.19	141	< 0.003	555	363	4760		< 15	20000	9310	< 0.007		555	11.5	< 0.0009	136	2.15			< 0.049999	0.0498			-87			7.27		0.27		< 50	1500	157	12.8		9520	45.6	56	< 0		0.204	0.0092
2/6/1995		2180		443	0.094	1.48	63	< 0.003	623	373	4480		0.0084		13870	< 0.007		623	40.6	< 22.5	138	2.74			< 0.049999	0.0573			60			7.76		0.28		< 0.01	1420	77.7	1.8		6720	67	115	< 0		0.351	0.0155
5/11/1995		1980		459	0.0448	0.987	33	< 0.003	583	443	4310		0.0059	150	11170	< 0.007		583	17.9	< 1.799999	162	3.23			< 0.049999	0.0704			<			7.62		< 0.2		< 0.01	1360	228	9.6		7770	58.7	108	< 0		0.193	0.009
8/31/1995		1690		626	0.147	0.654	125	< 0.0044	275	452	4850	< 0.4	< 0.0034	170	11440	< 0.01		275	9.78	< 0.0009	160	0.844			0.09	0.107			<			7.86	860	< 0.2		< 0.01	1800	637	18.2		10400	74.2	342	< 0		3.01	< 0.01
12/8/1995		2280		665	0.072	0.93	52	< 0.0044	383	462	4870		0.0043	<	11910	0.0131		383	12.6	< 9	247	1.56			0.091	0.0901			-88			6.96		< 0.2		< 0.01	1780	< 70	9.6		9240	53.3	90	< 0		0.804	< 0.01
2/28/1996		2950		673	0.0825	1.91	30	0.0068	1000	755	7510		0.0105	2200	15780	0.048		1000	248	0.0019	176	2.64			0.2	0.126			-278			6.99		2.41		< 0.01	2210	369	6.9		13100	58.9	1840	< 0		4.71	1.19
5/30/1996		2660		727	0.412	3.09	50	< 22	2590	1040	8230	< 0.4	< 17	550	15020	< 50		2590	337	0.0013	262	3.9			< 0.049999	< 95			<			6.91	17	12.1		< 50	2640	307	7.4		15300	44.9	18300	< 0		1.33	< 50
8/21/1996									5710	1690				<	12400				13100	0.13	249	16.9									7.2			1760	< 50	2160		11.8		13300	61.2	25300	< 0			
10/29/1996	2020	2020		376					1570		4210				11000				455		225	7.77										7.74			1690		1550	951	11.7		8720	53.1					
12/11/1996									1100	297				11	5350				67	0.129	154	5.65										7.38			857	< 0.01	1060		6.8		8250	5.5	1030	< 0			
5/6/1997		2770		690	15.9	49		0.383	4280	1150	5840	< 0.4	< 40	100	1830	0.554		4280	8290	0.166	308	14.5			< 0.049999	0.636						7.62	2		1760	< 100	2080	276	9.4		11000	40.6	8810	< 0		102	0.906
8/27/1997									2320	569				<	16510				7520	0.125	342	10.6										7.23			1780	< 50	1790		28.4		10100	51.6	5830	< 0			
12/15/1997									356	484				10	6700				8.78	0.0015	293	1.71										7.57			1950	< 0.01	1530		5.7		10200	48.2	124	< 0			
4/23/1998		2760		601	1.68	5.16		0.0558	2000	449	3600	< 0.4	1.26	<	11020	2.33		2000	1440	0.787	552	122			< 0.099999	2.22						7.22	< 1		1010	0.0105	1390	246	9.6		7170	13	21500	< 0		6.56	4.29
8/31/1998									323	498				<	15480				12.8	< 0.001	255	1.15										7.62	9		1840	< 0.01	1530		15.5		9330	56.3	841	< 0			
12/2/1998									768	94.2				200	11400				112	0.037	155	6.2										8.81			1960	< 0.015	1470		12		7700	160	2390	< 0			
3/3/1999		4180							2230		3350	< 5									287	11.2													1850		1310	856									
5/5/1999		3960		736	2.6	23.4		0.0077	6870	274	38.4	< 5	0.15	< 1	18230	0.54			407	0.13	369	39	< 0.0002			1	0.63				7.51		< 10		3980	< 0.015	2430	1370	15.8		8900	594	7930		< 0	47.1	0.62
8/11/1999									164	386					7040				43.8	0.019	248	1.6										8.09			1420	< 0.015	1420		20		13600	54.8	36				
8/11/1999														10																																	
11/18/1999														2000																																	
11/18/1999									221	799					15240				5.6	< 0.005	295	1.4								8.14				1650	< 0.015	1250		7.8		8290	40.4	277				
5/3/2000		3250		1540	0.058	0.59		< 0.005	259	341	3050	< 5	< 0.01	<	16950	< 0.025			3.2	< 0.005	290	3.2			< 0.2	0.4						7.52	< 10		2650	< 0.015	1970	898	15		8660	53.2	135			14	< 0.02
9/15/2000									193	700				< 10	14020				0.96	< 0.005	293	1.5										7.65			1420	< 0.015	1260		15.9		7940	29.5	10				
12/13/2000									223	721					14540				1.8	< 0.005	308	1.9										8.07			2040	< 0.015	1680		9.4		8470	40.8	169				
3/5/2001														<																																	
5/10/2001														200																																	
5/10/2001		3560		1280	0.059	0.45		< 0.005	329	725	2800	< 5	< 0.01		10970	< 0.025			1.8	< 0.005	318	3.8			< 0.2	0.6						7.46	< 10		1720	< 0.015	1340	1320	14		9110	30.7	16			24.1	< 0.02
8/8/2001									368	744				3900	8670				6.3	< 0.005	318	4.6										7.27			1710	< 0.015	1330		24		8790	78.1	882				
12/10/2001									268	765				3000	5020				1.4	< 0.005	306	2.1										7.73			1830	< 0.015	1490		8.5		8240	138	55				
5/9/2002	3160	3160		715	0.081	0.6		< 0.005	369	644	3220	< 5	< 0.01	2300	18765	< 0.025			3.3	< 0.005	340	4.1			< 0.2	0.52						7.94	< 10		1650	< 0.015	1350	1160	9		9350	55.4	283			22.6	< 0.02
8/13/2002									257	626				2900					1.2	< 0.005	328	2.3										7.48			2160	< 0.015	1750				8730	41.1	112		18		
12/9/2002									276	718				5900	16835				0.9	< 0.005	335	2.2										7.47			1600	< 0.015	1310		7		7680	57.7	48		19		
4/30/2003		551		655	0.11	3.6		< 0.005	1660	1570	6190	< 5	0.011	1500	22257	< 0.025			42	< 0.005	92.1	5.3			< 0.2	0.073			129			6.59	480		1180	< 0.015	2290	124	<		13700	9.4	40		< 0	0.55	< 0.02
8/11/2003									1380	1540				< 10	6290				50.1	< 0.005	139	5										7.06			1350	< 0.015	2230		17.5		14500	13.4	124		618		
12/16/2003									2240	8220				23000	37169				69.9	0.11	109	4.4										6.88			1920	< 0.015	3540		9.7		16100	14.1	684		913		
5/14/2004	21.7	21.7	< 0.75	1840	0.13	7.8	2000	< 0.015	2260	9690	17600	< 5.3	4.9		42999	0.34			136	0.25	146	5.2	0.00026		0.26	0.12			-74			6.85	330		2270		4010	29.7	14.7		27800	18.3	1100		581	4.7	0.3
8/12/2004	658	658		1910	0.093				1710	4620	15600				<				124	< 0.005	159	3.7										<			2540		4120	92.6	<		20600	74.2	235		1390		
12/6/2004	1060	1060		1180	0.089				1400	2470	11800				39200				31	< 0.005	165	3.1										7.52			1750		2820	196			19800	186	213		752		
5/19/2005							800																																								
5/19/2005		1110	0.24	1080	0.074	2.2		< 0.005	794	1530	8700	< 5.3	0.79		26480	0.032			39.8	0.021	121	2.3			< 0.2	0.079			-15.9			6.86	< 540		1280		1940	256	12.4		12000	99.4	208		438	2.4	0.029

Appendix H-4
WMDSM Crossroads Landfill
Historical Data Table: Leachate Collection and Leachate Detection Data

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperatur e,	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
45LC																																																
8/17/2005		174		1470	0.057				1270	2340	11800				31586				44	< 0.005	127	3.1										5.62			1350		2510	116	17.5		20900	207	132		103		
8/31/2006		1410	< 0.2	989	0.11	4.4	< 600	< 0.005	1430	2340	11600	< 17	0.073		31200	< 0.02			57.1	< 0.005	201	3.7			< 0.0002	0.1							480		1810		3150	341			21700	278	231	1110		4.5	< 0.02
5/21/2008		1280	< 0.2	464	0.049	2.5			806	1270	12900	< 5	0.088		21480	< 0.025			27.9	< 0.005	141	2.8			< 0.2	0.049			-8			6.6	< 10		1240		2000	285	18.5		14000	86.9	60.8		369	3	< 0.02
5/14/2009		1220	< 0.200	1130	0.0938	2.87	210		874	1900	7980	< 10	0.292		27580	< 0.0250	2.9		47.6	0.0094	153	2.65	< 0.0002			0.0574	3.83			15.2	6.79		< 49		1310		2400	248	14.5		12200	136	38.8			5.64	< 0.0200
5/10/2010		1610	0.101	5430	0.0770	2.76	180		905	1990	8670	< 10	0.202		32320	0.0251	2.2		30.2	0.0057	170	2.47	< 0.0002			0.0496	1.52			84.3	7.17		110		1310		2310	75.6	9.9		16400	104	123		609	2.29	0.0596
5/10/2011		1410	0.074	866	0.070	2.0	36		649	1670	6590	< 50	0.077			< 0.025			20.2	0.0062	180	2.1	< 0.00020			0.062	14.1						< 47		1340		2100	357			13700	94.5	105			4.0	< 0.020
5/11/2012		678	0.49		1.0	2.6			652	1370	4900	< 50	7.7			0.80			116	0.61	133	1.7	< 0.00020			0.093	< 0.050						< 1000		902		1750	218			16800	113	13400			9.5	0.79
4/9/2013		2420	< 0.060	882	0.082	1.8	65		420	1400	7300	< 50	0.098		24326	0.0061	3.7		13.2	< 0.0050	243	1.1	< 0.00020			0.093	11.9			122.0	7.31		< 480		1560		2300	561	7.3		12000	155	56.4		296.0	6.6	0.010
5/16/2014		1400	0.30		0.11	1.7	70		442	396	5590	< 50	0.11			0.011			27.1	0.0037	135	1.3	< 0.00020			0.054	4.4						< 180		1110		1680	388			10000	100	86.4			5.2	0.011
5/7/2015		1100	0.39		0.12	1.9	42		591	365	6590	< 25	0.032			0.0045			34.2	0.0053	122	1.4	< 0.00020			0.085	2.0						< 180		1160		2170	178			12800	104	75.4			1.4	0.0085
5/20/2016		850	< 0.060		0.065	2.6	44		900	600	12000	< 25	0.024		34624	< 0.025	3.6		20	0.010	160	2.4	< 0.00020			0.18	0.25			-43.5	6.81		< 190		2000		3900	160	19.5		22000	170	85		173.0	< 0.025	< 0.020
45SD																																															
10/27/1993															<																<							<						< 0			
2/8/1994															<																<							<						< 0			
5/3/1994				< 0.02			2		60.1	8	4.8	< 2	< 0.0058	26	459			60.1	0.341	0.0023	18.5	0.058										8.05	< 1	< 0.1		10.5	29.1	7		289	1.51	< 3	< 0			
8/3/1994				< 0.02			2		57.5	< 8	4.7			5700	482			57.5	0.232	0.0009	19.3	0.013										8.82		< 0.2		9.44	52.9	16		285	1.6	6	< 0			
11/9/1994		250		< 0.02			< 2		76.7	< 8	4.1			20000	<			76.7	0.0361	< 0.0009	23.8	0.0119										<		< 0.2		10.3	30.8	<		295	1.5	< 3	< 0			
2/6/1995				< 0.02			2		70	< 8	6.4			2	533			70	0.277	< 0.0009	22.4	0.0156										8.16		< 0.2		11.6	48.7	0.4		293	0.7	6	< 0			
5/11/1995				0.032			< 2		77.7	< 8	3.6	< 0.6	0.0036	<	462			77.7	0.132	< 0.0009	25	0.0172										8.17	< 2	< 0.2		12.8	65.4	9.5		318	0.9	< 3	< 0			
8/17/1995				< 0.02			3		11.2	9	6.5			<	200			11.2	0.663	< 0.0009	2.48	0.0615										7.88		< 0.2		33	7.2	19.5		154	2.4	16	< 0			
12/12/1995															<																<							<						< 0			
2/28/1996															<																<							<						< 0			
8/22/1996															<																<							<						< 0			
11/25/1996															<																<							<						< 0			
5/4/1997															<																<							<						< 0			
8/8/1997															<																<							<						< 0			
11/20/1997															<																<							<						< 0			
4/23/1998															<																<							<						< 0			
8/21/1998															<																<							<						< 0			
3/3/1999		164							52.8		8.1	< 5									24.3	< 0.015													5.9		13.2	37.6									
12/13/2000									127	780					16460				0.11	< 0.005	163	0.13										8.39			2460		2410		6.3		9190	49.5	4				
5/10/2001		186		0.32	0.0056	0.014		< 0.005	52.6	46.9	19.9	< 5	< 0.01		353	< 0.025			0.63	< 0.005	20.8	0.05			< 0.2	< 0.04						7.26	< 10		6.6		10.3	43.9	11.4		291	1.8	6			< 0.025	< 0.02
8/7/2001									51.6	< 10					490				0.074	< 0.005	22.8	< 0.01										7.09			6		10		15.7		250	1.6	< 3				
5/9/2002	170	170		0.57	< 0.005	0.022		< 0.005	48.2	< 10	25.6	< 5	< 0.01		473	< 0.025			0.046	< 0.005	24.2	< 0.01			< 0.2	< 0.04						7.11	< 10		5.8		12.9	46.3	10.1		245	1.6	< 3			< 0.025	0.026
5/13/2004	237	237	< 0.2	2.1	< 0.005	0.018	3.5	< 0.005	63.7	21.6	44.8	< 5	< 0.01		616	< 0.025			0.041	< 0.005	28.2	< 0.01	< 0.0002		< 0.2	< 0.04			121			8.11	< 10		6.7		12.4	51	9.8		416	1	< 3		0.8	< 0.025	< 0.02
5/19/2005		162	0.32	28.2	< 0.005	0.043	32	< 0.005	17	87.4	262	< 5	< 0.01			< 0.025			0.58	< 0.005	13	0.09			< 0.2	< 0.04							< 10		138		113	11.1			675	14.2	16			< 0.025	0.021
12/22/2005		243		0.42	< 0.01				104	16.1	57.3				1782				1	< 0.005	31	0.017										7.7			7.3		14.7	60.5	0.8		428	2.8	108		4.5		
5/16/2006		243	< 0.2	0.29	< 0.005	0.021	4.1		96.9	38	25.5	< 5	< 0.01		881	< 0.025			0.093	< 0.005	27.7	0.028			< 0.2	< 0.04			-4			7.28	< 10		7.3		12.7	37.6	10.2		422	4.8	< 4		1.8		< 0.02
6/3/2009		258	< 0.030	0.077	< 0.0050	0.0384			98.7	< 10.0	39.4	< 5.0	< 0.0100		750	< 0.0250	9.5		0.174	< 0.0050	29.2	0.0278	< 0.0002			< 0.0400	< 0.050			138.1	7.20		< 10		5.72		14.9	61.6	17		450	1.3	< 4.0		3.1		< 0.0200
5/18/2010		316	< 0.045	0.056	< 0.0056	0.0218	< 2.0		85.6	< 10.0	47.6	< 5.0	< 0.0100		794	< 0.0250	9.8		0.073	< 0.0050	30.1	< 0.0100	< 0.0002			< 0.0400	< 0.050			-133.0	7.67		< 10		5.86		15.2	65.1	13.2		448	2.2	8.0		2.9		< 0.0200
5/9/2011		306	< 0.060	0.098	< 0.0056	0.028	< 2.0		92.7	< 10.0	48.0	< 5.0	< 0.010		765	< 0.025	10.4		0.11	< 0.0050	33.7	0.069	< 0.00020			< 0.040	0.077			29.5	7.37		< 9.4		6.4		17.3	69.1	9.5		432	2.6	< 4.0		2.9		< 0.020
5/10/2012		326	0.081		< 0.0056	0.024	3.3		85.0	10.0	35.0	< 5.0	0.0015		705	0.0017	7.3		0.18	< 0.0050	26.7	0.019	< 0.00020			< 0.040	0.047			67.1	6.31		< 9.9		4.9		11.9	43.7	13.5		386	2.1	< 4.0		5.5		0.015
4/12/2013		251	< 0.060	0.069	0.0059	0.022	2.0		97.0	7.0	71.4	< 5.0	< 0.010		783	0.0023	11.0		0.068	0.0041	33.6	0.018	< 0.00020			0.0019	0.036			-117.4	7.40		< 10		5.3		22.2	51.2	6.0		545	2.3	< 4.0		7.1		0.0045
5/7/2015		201	1.1		0.018	0.034	< 2.0		61.9	177	49.9	< 5.0	0.033		516	0.016	5.4		15.7	0.0060	27.4	0.11	< 0.00020			0.0075	< 0.050			118.0	8.05		< 9.8		17.9		20.4	67.1	16.9		380	5.3	259		35.5		0.14
5/19/2016		200	< 0.060		< 0.0056	0.018	< 2.0		64	< 10	58	< 5.0	< 0.010		608	< 0.025	8.3		< 0.030	< 0.0050	30	< 0.010	< 0.00020			< 0.040	< 0.050			98.3	7.60		< 10		5.9		17	68	16.9		320	1.9	< 4.0		1.0		< 0.020
6/2/2017		230	0.50		< 0.0090	0.18	2.6		73	< 10	55	< 5.0	< 0.010			< 0.025	11.4		11	< 0.0050	30	0.18	< 0.00020			< 0.040	0.11			89.9	7.91		< 10		5.7		15	66	17.1		380	2.2	19		6.9		0.044
5/10/2018		210	< 0.080		< 0.0090	0.018	< 2.0		66	< 10	56	< 1.0	< 0.010			< 0.025	10.8		0.070	< 0.0050	28	0.026	< 0.00020			< 0.040	0.068			70.9	7.72		< 10		5.1		15	62	13.7		330	1.3	< 4.0	5.4			< 0.020
6/13/2019		220	< 0.080		< 0.0090	0.053	4.4		80	33	51	< 1.0	< 0.010			< 0.025	10.7		0.50	< 0.0050	29	0.56	< 0.00020			< 0.040	< 0.050			210.0	7.47		< 10		6.5		17	56	13.4		420	4.3	< 4.0	5.8			< 0.020
4ABSD																																															
2/10/1994															<																<							<						< 0			
7/29/1994															<																<							<						< 0			
4ALD																																															
10/27/1993															<																<							<						< 0			
2/10/1994															<																<							<						< 0			
5/3/1994				< 0.02			< 2		860	73	2460	< 2	< 0.0058	<	4900			860	0.924	0.0061	91.1	0.761										7.67	< 1	< 0.1		701	84.4	7.7		4830	1.641	9	< 0			
8/3/1994				< 0.02			< 2		1280	224	5120				15020			1280	0.332	< 0.0009	121	5.87										7.68		< 0.2		1220	161	19.5		8790	1.5	19	< 0			
11/9/1994		145		< 0.02			< 2		430	34	1730			20000	2450			430	< 30	< 0.0009	51.3	1.75										7.6		< 0.2		446	43.6	10.8		3080	1.8	< 3	< 0			
2/6/1995				< 0.02			2		747	86	3140			85	8020			747	0.0997	< 0.0009	73.6	0.093										6.96		< 0.2		718	121	1.7		4840	1.1	5	< 0			
5/11/1995															<																<							<						< 0			
8/17/1995															<																<							<						< 0			
12/12/1995															<																<							<						< 0			
2/27/1996															<																<							<						< 0			
5/9/1996															<																<							<						< 0			
8/22/1996															<																<							<						< 0			
11/25/1996															<																<							<						< 0			
5/4/1997															<																<							<						< 0			
8/8/1997															<																<							<						< 0			
11/20/1997															<																<							<						< 0			
4/23/1998															<																<							<						< 0			
8/10/1998															<																<							<						< 0			
12/14/2000									643	112					10760				< 0.03	< 0.005	322	0.27										8.22			1710		1800		6.7		9370	8.3	7				
5/9/2002	66.9	66.9		4.9	< 0.005	0.2		< 0.005	1050	101	7490	< 5	< 0.01		19545	0.082			0.18	< 0.005	362	0.042			< 0.2	0.044						7	< 10		1600		1590	1040	9.1		11500	5.8	21			< 0.025	0.026
9/5/2006		88.2		2.7	< 0.01				28.9	913	125				571				2	< 0.005	7.9	1.1													55.8		57.5	3.8	19.7		635	301	38	34.6			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
4BLD																																																
10/27/1993															<																<								<					< 0			
2/10/1994															<																<								<					< 0			
5/3/1994				< 0.02			< 2		83.3	< 8	74.5	< 2	< 0.0058	3	637			83.8	0.079	0.0009	14.9	0.0063										8.28	< 1	< 0.1				27.2	25.2	7.5		418	1.107	29	< 0			
8/3/1994				< 0.02			< 2		74.4	< 8	139			4400	776			74.4	0.1	< 0.0009	17.7	0.007										8.23		< 0.2				38.6	47.5	19.4		480	1.4	6	< 0			
11/9/1994		93		< 0.02			< 2		61.3	< 8	110			12000	280			61.3	0.599	< 0.0009	24	0.0154										7.75		< 0.2				27.6	62.5	10.5		394	2.9	5	< 0			
2/6/1995				< 0.02			2		334	19	811			161	3440			334	0.144	< 0.0009	147	0.0125										7.96		< 0.2				242	541	1		2280	3.6	5	< 0			
5/11/1995				< 0.02			2		131	14	282	< 0.6	0.0031	102	1360			131	0.193	< 0.0009	78	0.0086										8.2	< 2	< 0.2				110	268	9.7		1120	2	< 3	< 0			
8/17/1995															<																<								<					< 0			
12/12/1995															<																<								<					< 0			
2/27/1996															<																<								<					< 0			
5/9/1996															<																<								<					< 0			
8/22/1996															<																<								<					< 0			
11/25/1996															<																<								<					< 0			
5/4/1997															<																<								<					< 0			
8/8/1997															<																<								<					< 0			
11/20/1997															<																<								<					< 0			
4/23/1998															<																<								<					< 0			
8/10/1998															<																<								<					< 0			
8/7/2001									989	985					6690				1.4	< 0.005	352	0.76									6.89			1510		1440		21.8		510	5.6	16				
12/4/2001									79.9	991					22741				< 0.035	< 0.005	173	0.021									8.08			2460		2360		8.9		11000	23.8	< 3				
12/3/2004	205	205		11.1	< 0.01				42.2	32	19.6				570				0.2	< 0.005	11.9	0.052									8.24			30.7		18.4	30.4	9.5		262	6.3	24		12.5		
9/5/2006		73		0.38	< 0.01				20.5	25	13.9				896				0.29	< 0.005	4.7	0.16												8.8		12.8	4	17.7		151	6.5	< 4	2.2			
4LC																																																
10/28/1993		1200		281	0.16	0.9554	< 600	< 0.0017	324.4	226	2740	< 10	< 0.0058	2000	7390	0.0066		329	38.35	< 0.0008	174.1	3.175			< 0.099999	0.0333			<			7.51	< 1	0.12		0.0101	710.4	< 3.5	11		6080	37	41	< 0		0.0073	0.0069
3/2/1994				516	0.13	1.1		< 0.0017	414	701	4310	< 20	0.011		13410	< 0.0066		430	15.4	< 0.004	162	1.6			0.3	0.061			<			7.78	545.1426	0.35		< 0.008	1340	118	5.9		8460	150	279	< 0		0.35	0.005
3/17/1994							< 6							8000	<													<			<								<					< 0			
4LD																																																
12/17/1996															<																<								<								
5ALD																																																
10/28/1993				< 0.02			4		32.7	< 8	3.4			18	229			33	0.3849	< 0.0008	9.289	0.0148									6.88		< 0.1			6.141	4.88	9		139	1.8	4	< 0			
2/10/1994															<																<								<					< 0			
5/3/1994				< 0.02			< 2		22.9	< 8	1.8	< 2	< 0.0058	28	243			22.9	0.229	< 0.0008	7.27	0.0336										8.04	< 1	< 0.1			4.74	10.5	7.7		144	0.807	< 3	< 0			
8/2/1994				< 0.02			< 2		30.1	< 8	2.5				253			30.1	0.0959	< 0.0009	9.51	0.0116										7.43		< 0.2			5.25	17.3	22.2		138	1.1	< 3	< 0			
11/9/1994		155		< 0.02			< 2		50.8	< 8	10			3500	148			50.8	0.141	< 0.0009	13.9	0.022										7.55		< 0.2			9.4	31.1	9.7		227	1.4	< 3	< 0			
2/6/1995				< 0.02			3		34.9	< 8	2.7			160	322			34.9	0.876	< 0.0009	12.5	0.0156										7.56		< 0.2			5.91	19.4			190	2.3	4	< 0			
5/11/1995				< 0.02			< 2		103	< 8	1.7	< 0.6	< 0.003	<	258			103	0.105	< 0.0009	23.3	0.0028										7.91	< 2	< 0.2			12.5	17.7	11.1		175	1.2	10	< 0			
8/17/1995				< 0.02			2		47.1	< 8	2.1			7	334			47.1	0.0789	< 0.0009	18.5	0.0205										7.72		< 0.2			8.63	33.9	25.9		233	1.3	4	< 0			
12/12/1995															<																<								<					< 0			
2/27/1996															<																<								<					< 0			
5/9/1996															<																<								<					< 0			
8/22/1996															<																<								<					< 0			
11/25/1996															<																<								<					< 0			
5/4/1997															<																<								<					< 0			
9/3/1997															<																<								<					< 0			
11/20/1997															<																<								<					< 0			
4/23/1998															<																<								<					< 0			
8/10/1998															<																<								<					< 0			
8/7/2001									125	1280					12750				0.11	< 0.005	201	0.11									7.37			2540		2200		15.8		1510	25.1	16				
12/4/2001									935	358					17862				0.17	< 0.005	316	0.031									7.81			1510		1600		8.9		11700	4.6	< 3				
12/10/2002									67.6	92					21050				0.06	< 0.005	239	0.042									7.87			2210		1970		7.2		11100	26.5	16		1		
5ASD																																																
4/29/1994															<																<								<					< 0			
11/9/1994															<																<								<					< 0			
5BLD																																																
10/28/1993															<																<								<					< 0			
2/8/1994															<																<								<					< 0			
5/3/1994				0.068			< 2		78.3	8	13.1	< 2	< 0.0058	380	535			78.3	0.0478	< 0.0008	19.8	0.0102										8.37	< 1	< 0.1			12.4	30	6.6		342	2.123	< 3	< 0			
8/2/1994				< 0.02			< 2		95.8	< 8	5.6				641			95.8	0.0395	< 0.0009	22.1	0.0043										8.14		< 0.2			10.7	31.5	20.3		371	2.4	< 3	< 0			
11/9/1994		318		< 0.02			< 2		97.9	< 8	5.1			13	289			97.9	0.021	< 0.0009	22.3	0.0047										7.95					10.2	27.7	10.5		362	1.9	< 3	< 0			
2/6/1995				< 0.02			2		74.8	< 8	6.2			10	584			74.8	0.0836	< 0.0009	22.5	0.0036										8.54		< 0.2			11.6	32.3	0.5		5050	1.8	< 3	< 0			
5/11/1995				< 0.02			< 2		33.8	< 8	5.4	< 0.6	< 0.003	<	465			33.8	0.305	< 0.0009	15.7	0.0309										8.06	< 2	< 0.2			7.31	24.4	10.6		356	1.2	< 3	< 0			
8/17/1995															<																<								<					< 0			
12/12/1995															<																<								<					< 0			
2/27/1996															<																<								<					< 0			
5/15/1996															<																<								<					< 0			
8/22/1996															<																<								<					< 0			
11/25/1996															<																<								<					< 0			
5/4/1997															<																<								<					< 0			
9/3/1997															<																<								<					< 0			
11/20/1997															<																<								<					< 0			
4/23/1998															<																<								<					< 0			
8/10/1998															<																<								<					< 0			
12/13/2000									36.3	976					20400				0.26	< 0.005	159	0.029									8.52			3170		3160		6.4		11400	62.2	8				
5/9/2002	1770	1890		560	0.0093	0.42		< 0.005	29.9	1220	8020	< 5	< 0.01		25289	< 0.025			0.059	< 0.005	196	< 0.01			< 0.2	0.052						8.83	< 10		2530		2160	5.8	8.8		11000	77.6	7			< 0.025	< 0.02
8/12/2002									55.9	592									0.11	< 0.005	191	0.017									7.86			2330		2370				10600	71.8	< 3		1.5		
4/29/2003		2110		802	0.009	0.66		< 0.005	64.7	838	5970	< 5	< 0.01		20078	< 0.025			0.34	< 0.005	198	0.037			< 0.2	0.049		93				7.61	< 10		2150		1930	5.7	16.8		11000	21.4	107		21.2	< 0.025	0.024
8/12/2003									93.8	908					19474				0.14	< 0.005	200	0.045									7.6			2040		1840		20.7		9350	29.8	93.3		2.3		
12/19/2003									29.6	704					18722				0.19	< 0.005	211	0.017									8.67			2130		1980		7.3		8120	21.1	66		2.3		
5/13/2004	2050	2050	< 0.2	840	0.015	0.4	11	< 0.005	40.2	950	6830	< 5	< 0.01		21518	< 0.025			0.46	< 0.005	192	< 0.01	< 0.0002		< 0.2	0.043		129				8.19	< 10		1930		1820	< 1	11.3		10400	59.8	5		2.1	< 0.025	< 0.02
8/11/2004	989	989		760	0.023				34.6	1380	8990				20679				0.077	< 0.005	205	0.017									7.97			2220		1910	1.5	19.1		10100	70.3	< 3		5.1		
12/3/2004	1790	1950		715	0.032				21.7	316	6750				19400				0.058	< 0.005	192	< 0.01									8.84			1900		1700	< 1	8.7		9830	64.1	8		13.2		
5/19/2005		923	< 0.2	652	0.012	0.8	4.2	< 0.005	103	483	7620	< 5	< 0.01			< 0.025			0.067	< 0.005	206	0.025			< 0.2	0.05							< 10		1940		1970	< 1			10100	49.8	< 3			< 0.025	< 0.02
8/18/2005		1360		617	0.014				124	298	6690				19874				0.43	< 0.005	220	0.053									6.26			2110		2180	< 1	18.1		11200	46.8	7		3.9		
12/22/2005		948		399	< 0.01				99.3	664	6750				17654				0.42	< 0.005	209	0.059									7.72			1840		1840	< 1	0.6		8150	60.2	58		6.7		
9/5/2006		674		122	< 0.01				276	535	5040				14600				0.15	< 0.005	203	0.23												1830		1790	18.6	15.6		9170	29.4	< 4	2.1			

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperatur e,	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml		umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																	
5BSD																																																	
2/11/1994																<																	<								<					< 0			
4/29/1994																<																	<								<					< 0			
7/29/1994																<																	<								<					< 0			
11/9/1994																<																	<								<					< 0			
5LC																																																	
10/28/1993		1450		347	0.054	1.165	213	< 0.0017	364.4	488	3090	< 20	< 0.0058	<		9160	0.0215		365	40.45	< 0.0008	134.6	3.048			< 0.099999	0.0489			<			7.72	400	0.35		< 0.008	883.3	< 1.399999	11		5580	112	165	< 0		0.7027	0.0055
3/2/1994				340	0.018	0.8		< 0.0017	428	291	3720	< 20	0.0068			9460	< 0.0066		445	24.7	< 0.004	249	2.7			< 0.099999	0.072			<			7.4	1.150323	0.17		< 0.008	842	56.7	7		5990	36.3	79	< 0		0.0053	< 0.0042
3/17/1994							< 6							8000		<													<			<								<					< 0			
5LD																																																	
12/17/1996																<																	<								<								
7LC																																																	
11/18/1993		103		1.41	0.023	2.8	21	< 0.0017	2200	494	5600	< 2	0.02	6000		11730	0.1		2074	8.9	< 0.0008	70.4	43.5			< 0.099999	< 0.012			<			7.16	< 1	< 0.1		< 0.041	883	20.2	20.3		10900	10	36	< 0		0.005	0.05
2/23/1994				42.2	0.014	12.9	167	0.0073	6410	921	19100	< 4	0.016	30		28300	0.032		5940	44.8	< 0.016	58.8	65.9			< 0.099999	0.016			<			6.55	390	0.22		0.045	3610	< 0.699999	8.4		28900	24.5	264	< 0		0.03	0.0072
5/2/1994		399		53.7	< 7	6.5	782	0.0018	5480	1010	11800	< 50	0.0083	20000		18260	0.0464		5480	24.7	< 8	33.2	42.5			0.18	0.0191			-4			6.92	395	0.157		< 40.5	2060	11.6	12.4		22400	87.736	176	< 0		0.0298	0.0259
6/6/1994		347			0.0155	8.92	341	< 0.0017		1020	17400	< 1	0.0087			16900				24.5	< 4	30.2	50.1			< 0.079999				<			6.8					3350	< 30	14.9		27500		163	< 0			
8/3/1994		222		40.1	< 7	3.47	344	< 0.003	3040	664	8550	< 3	0.0104			20000	0.134		3040	9.31	< 18	39.5	19.1			< 0.049999	0.0251			<			7.03	380	0.21		< 50	1260	61.7	25.5		16300	62.3	143	< 0		0.0435	0.047
11/9/1994		298		128	0.017	7.44	254	< 30	4410	639	14200		< 15	20000		15160	< 70		4410	11.1	0.018	25.1	17.1			0.088	< 90			-72			6.77		< 0.2		< 50	3200	39.1	<		23800	17.9	134	< 0		< 30	< 40
2/6/1995		222		137	0.175	8.2	345	< 0.003	5760	890	18000		0.0069			25300	0.112		5760	10.6	< 4.5	12.6	8.78			< 0.049999	0.0562			65			7.29		0.21		0.0169	3800	50.8	8.8		25900	81.8	45	< 0		0.0712	0.0167
6/14/1995		172		111	0.062	6.71	< 120	< 0.003	4670	626	17400	< 0.6	0.0349	24		24900	3.16		4670	61.8	0.0373	13.3	18.5			0.12	0.0296			<			6.79		< 0.2		0.0189	3690	1	19		36100	33.6	80	< 0		0.0928	0.507
8/31/1995		53		147	< 175	9.19	344	< 0.0044	5990	895	21300	< 0.4	0.0061	<		22300	0.0134		5990	43.9	< 18	13.5	16.8			< 0.049999	< 0.018999			<			6.76	< 2	< 0.2		0.0985	4650	< 1.399999	19.8		54000	7.8	103	< 0		0.141	0.0288
12/8/1995		64		183	0.046	8.92	< 120	< 0.0044	5130	863	20500		< 0.0034	<		22800	0.0288		5130	44.5	< 9	17.1	14.4			0.082	< 0.018999			-51			6.76		< 0.2		< 0.01	4580	< 3.5	7		34000	6.1	95	< 0		< 0.007	0.0325
2/27/1996		443		17.6	0.0211	0.0533	< 24	< 0.0044	59.3	86	80.8		0.0126	<		1926	< 0.01		59.3	39.5	0.0037	33	8.38			0.051	0.0349			-290			6.22		< 0.2		< 0.01	70.6	< 0.699999	14.4		538	20.4	24	< 0		0.0162	0.0981
5/14/1996		127		107	0.042	4.46	22	< 0.0044	3240	578	12500	< 0.4	0.0052	<		21200	< 0.01		3240	28.5	< 4.5	9.86	9.36			0.072	< 0.018999			<			7.06	5	< 0.2		0.0132	3110	20.9	15.9		24900	6.3	52	< 0		0.0622	0.0121
8/21/1996									105	83				30		19340				31.1	< 0.001	49.2	12.2										6.75			12.8	< 0.01	64.8		15.9	667	18.9	53	< 0			
10/29/1996	297	297		222					1590		26200					30000				89.7		8.69	15.4										6.83			4260		7240	< 100	17.2	54700	104					
12/11/1996									8180	1660				23		18670				76.4	0.017	10.9	12.7										6.74			3730	0.0164	7760		12.6	48800	31.1	111	< 0			
5/6/1997		80		275	0.0276	11.8		< 0.0044	7750	1400	5970	< 0.4	0.0072	<		16000	0.456		7750	5.07	0.0399	15.5	16.6			0.32	0.0275						6.63	< 2			3800	< 0.01	8000	50.2	13.8	52900	6	42	< 0		< 0.007	0.174
8/21/1997									6340	1470				<		62700				3.84	0.0339	13.7	11.2										6.84			4810	< 0.01	7710		15.3	72000	8.2	62	< 0			
12/15/1997									8000	1530				170		13600				3.87	0.0215	13	10.6										6.4			479	0.0302	8220		11.3	51000	9.4	157	< 0			
5/27/1998		240		353	< 15	9.78		< 0.004	8430	1540	27400		0.0487	<		76200	< 0.011		8340	2.55	0.0387	20.1	12.5			< 0.099999	0.0267						6.32			5460	< 0.01	8840	23.6	17.2	61300	25.9	41	< 0		< 0.007	0.0108
8/31/1998									8990	1620				<		58400				90.5	< 5	24.3	32.1										5.82	640		4970	0.0303	9700		18.5	84900	21.2	19	< 0			
12/2/1998									7210	282				200		14400				1.9	< 0.005	11.6	14.4										6.76			4700	< 0.015	7690		13.4	52000	96	123	< 0			
3/2/1999		272							8060		65200	< 5										14.6	16.8													11400		19400	118									
5/4/1999		249		470	0.046	11.6		< 0.005	7180	23.8	26400	< 5	0.044			7550	< 0.025			0.38	< 0.005	16.5	16.1	< 0.0002			< 0.04	< 0.05					6.51		150		4820	< 0.015	786	79.6	15.6	55200	73.3	73		< 0	< 0.025	< 0.1
5/4/1999														< 1																																		
8/11/1999									6870	1340						8050				0.32	< 0.005	16.7	15.3										7.09			4940	< 0.015	7920		10.4	63900	7.5	48.5				
8/11/1999														19																																	
11/18/1999														< 1																																	
11/18/1999									7860	1550						66100				15.4	< 0.005	17.6	14.6									5.53				5280	< 0.015	7790		8.2	56400	5.4	74				
4/27/2000		165		722	0.075	6.2		0.019	12700	696	38300	< 5	0.014	< 2		79300	< 0.025			43.6	< 0.005	17.4	27.1			< 0.2	< 0.04						6.67	< 10		6420	< 0.015	13500	224	13.3	59800	72.9	312			< 0.025	< 0.02
8/15/2000									8050	2360				< 2		15070				7.1	< 0.005	22.4	21.8										7.26			5180	< 0.015	10800		23.3	60600	25.5	86				
12/13/2000									9700	2650						50700				12.9	< 0.005	20.8	17.7										6.95			6150	< 0.015	10400		10.6	51700	9	286				
5/10/2001		44.3		811	0.04	11.1		< 0.005	6880	380	39000	< 5	0.02	1		48400	< 0.025			3.3	< 0.005	19.6	14			< 0.2	< 0.04						6.59	200		4770	< 0.015	7680	101	17.1	58400	4.1	170			< 0.025	< 0.02
8/8/2001									6720	3310				4		16660				2.8	0.0071	21.2	12.4										5.57			4690	< 0.015	7980		25.8	48600	14.3	66				
12/10/2001									6980	8680				2		6200				2.4	< 0.005	16.5	9.9										6.78			4490	< 0.015	8220		9.1	43200	8.6	52				
5/9/2002	41.4	41.4		442	0.012	5.4		< 0.005	4700	1170	21000	< 5	< 0.01	< 4		59774	< 0.025			1.6	< 0.005	15.7	9.4			< 0.2	< 0.04						6.47	< 10		3270	< 0.015	5870	149	16	33900	12.5	36			< 0.025	< 0.02
8/13/2002									5250	2100				25000						38.2	0.028	67.7	49.4										6.36			3700	< 0.015	6220			29400	6.3	552		21.2		
12/9/2002									4610	1560				80		55416				3.5	0.018	102	32.8										6.55			3330	< 0.015	5330		8.3	32800	16.7	704		46.9		
4/30/2003		383		281	0.052	12.1		< 0.005	5770	2340	25400	< 5	< 0.01	< 2		51450	< 0.025			156	0.018	83	33.5			< 0.2	< 0.04		118				6.32	540		4080	< 0.015	7210	95.7	<	44100	5.6	20		< 0	< 0.025	< 0.02
8/11/2003									3180	1170				< 10		8520				34.1	0.0063	91	12.5										6.54			2550	< 0.015	4260		23	25900	4.5	88		26.8		
12/16/2003									1530	846				11000		16088				12.3	< 0.005	47.1	8.2										6.84			1180	< 0.015	1720		10	10800	31.8	20		8.7		
5/14/2004	< 5	< 10	< 0.2	145	0.015	3.8	410	< 0.005	2020	802	9780	< 5	0.035			25083	< 0.025			69.9	< 0.005	114	34.6	< 0.0002		< 0.2	< 0.04		-93				6.61	440		1330		2190	< 1	18.8	17600	33.4	75		15.4	< 0.025	< 0.02
8/12/2004	1870	1870		104	0.033				1210	462	5230					16062				117	< 0.005	122	19										6.6			824		1410	11.3	16.1	8810	236	53		8.4		
12/6/2004	18.4	18.4		166	0.022				1120	2090	4520					16400				155	0.011	171	17										6.91			539		1060	14.6	6.9	9450	652	154		5		
5/19/2005							550																																									
5/19/2005		568	0.72	472	0.058	6.9		< 0.005	3100	2550	18800	< 5	0.039			52810	< 0.025			160	0.0079	186	11.2			< 0.2	< 0.04		-102.9				6.43	160		2480		4230	8.2	13.2	30000	281	199		25.7	< 0.025	< 0.02
8/17/2005		1000		548	0.052				1760	1820	13900					39165				80.2	< 0.005	311	6.7										5.23			1940		3530	47.8	15.6	25600	146	166		15.6		
12/22/2005		8610		567	0.055				2980	1210	15200					37447				118	< 0.005	239	7.6										7.67			2640		4460	22.6	7.7	25900	67.6	113		18.6		
5/11/2006							< 300																																								
5/11/2006		575	< 0.2	347	0.1	5.4		< 0.005	2540	1650		< 5	0.032			34100	< 0.025			147	< 0.005	235	8.1			< 0.2	0.063		-65				6.25	< 10		2280		3810		15.5		68		4.2	< 0.025	< 0.02
5/12/2006							< 300																																								
5/12/2006											8870					34100													-65			6.25						74.3	15.5		35100		221		4.2		
5/17/2007		419	< 0.2	943	0.15	6.9	47		3110	3070	17900	< 6.7	0.039			53190	< 0.025			148	< 0.005	230	11			< 0.2	0.075		-63				6.39	< 10		2890		5450	22.7	13.2	44100	168	201		49.4	< 0.025	< 0.02
5/21/2008		515	< 0.2	599	0.2	7.1			2680	2710	31500	< 6.7	0.044			44300	< 0.025			169	< 0.005	243	10.3			< 0.2	0.099		-20				7	< 10		2750		5030	59.7	15.1	34800	85.9	114		17.2	< 0.025	< 0.02
5/14/2009		509	< 1.00	669	0.155	4.75	34		2390	1690	15500	< 20	0.0282			45760	< 0.0500	4.3		150	< 0.0250	252	8.07	< 0.0002			0.0838	< 0.050			-54.9	6.32		< 25		2100		4340	40.6	17	35100	108	171			< 0.0250	< 0.0500
5/10/2010		2220	0.142	3080	0.170	3.61	31		1370	1420	9940	< 20	0.0389			33740	< 0.0250	3.1		67.1	< 0.0050	202	3.31	< 0.0002			0.0985	< 0.050			-44.0	6.93		< 10		1470		2590	53.5	11.8	20100	104	204		321	< 0.0250	< 0.0200
5/10/2011		1020	0.072	344	0.20	3.0	18		1550	979	7630	< 100	0.013			28200	< 0.025	8.3		102	< 0.0050	165	6.6	< 0.00020			0.055	< 0.050			-87	6.74		< 9.6		1410		2650	82.2	17.6	16400	59.2	170		33.3	< 0.025	< 0.020
5/11/2012		699	0.13		0.14	5.8	26		1910	2860	13500	< 100	0.034			40991	0.0025	4.0		93.8	< 0.0050	221	4.5	< 0.00020			0.079	< 0.050			-101.0	6.51		< 50		2050		4210	75.6	16.7	32800	135	210		50.3	0.0090	0.0022
4/9/2013		812	< 0.060	684	0.19	6.9	26		1930	2510	15900	< 100	0.026			44008	0.0031	4.2		102	< 0.0050	261	5.1	< 0.00020			0.088	0.043			-36.0	6.72		< 47		2440		4930	33.8	13.5	32300	165	217		81.5	0.011	0.0021
5/14/2014		1540	< 0.060		0.17	6.4	28		2110	1020	3140	< 100	0.037			42500	0.0054	1.5		76.1	0.0068	245	3.9	< 0.00020			0.10	< 0.050			-71.0	6.36		< 46		2590		5040	< 1.5	17.6	32600	175	214		2.9	0.0083	< 0.020
5/1/2015		1810	< 0.060		0.52	3.5	50		1080	637	11600		0.039			31100	< 0.025	1.1		81.6	< 0.0050	225	1.6	< 0.00020			0.16	< 0.050			-89.0	6.98		< 48		1870		3890	263	18.6	20000	119	188		101.0	0.0073	< 0.020
5/11/2015												< 100																																			
5/20/2016		2000	< 0.060		0.13	3.9	21		1200	590	11000	< 100	0.031			31557	< 0.025	3.3		14	0.0095	250	1.9	< 0.00020			0.12	< 0.050			-73.8	6.73		< 50		2000		4000	2.8	21.0	22000	110	100		176.0	< 0.025	< 0.020
6/1/2017		2000	< 0.080		0.18	3.3	35		880	740	9700	< 50	0.041				< 0.025	2.2		27	< 0.0050	210	1.3	< 0.00020			0.15	< 0.050			-74.3	6.89		< 250		1700		3400	< 5.0	20.8	18000	140	140		89.8	< 0.025	< 0.020
5/9/2018		1900	< 0.080		0.18	4.4	39		1100	660	10000	< 10	0.034				< 0.050	2.8		43	< 0.0050	220	1.7	< 0.00020			0.13	< 0.050			-34.6	6.68		< 200		1600		3600	< 5.0	20.5	24000	130	120	52.4		< 0.025	< 0.020
6/11/2019		2400	< 0.080		0.15	3.0	24		770	940	8000	< 10	0.035				< 0.025	2.0		24	< 0.0050	180	1.0	< 0.00020			0.13	< 0.050			-75.8	7.04		< 1000		1500		2900	< 5.0	18.6	14000	120	110	71.3		< 0.025	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
7LD																																																
10/28/1993															<																	<							<					< 0			
2/8/1994															<																	<							<					< 0			
5/2/1994				44.3			70		2860	565	6550	< 2	0.0091	91	10840			2860	5.18	< 4	37.8	38.3										7.1	111	< 0.1				1400	21.1	11.2		12600	54.109	72	< 0			
6/6/1994		231			< 3.5	1.63	< 6	< 0.0017		217	4660	< 0.1	0.2		8180				6.73	0.0455	37.8	29.9			< 0.079999			<				7.21					615	20.4	13.9		9730		37	< 0			
8/2/1994				0.75			2		612	60	1740			1060	5540			612	0.883	0.0015	15.1	7.07										7.82		< 0.2				251	52.2	17		3960	2.6	9	< 0			
11/9/1994		91		2.08			3		127	13	320			20000	427			127	2.82	< 0.0009	12.5	0.675										7.4		< 0.2				60.8	36.4	11.9		824	3.7	10	< 0			
2/6/1995				< 0.02			207		104	399	152				1179			104	9.71	0.0785	26.1	3.68										7.1		0.22				45.8	40	12		770	139	22	< 0			
6/14/1995				1.28			2		206	15	570	< 0.6	0.038	<	2120			206	0.839	0.0018	29.7	0.541						<				7.21	< 2	< 0.2				134	55.3	19		1660	2.4	4	< 0			
8/30/1995				0.06			2		150	17	451			85	1320			150	1.32	< 0.0009	35.3	0.5										7.21		< 0.2				180	122	13.7		1270	2.5	9	< 0			
12/12/1995															<																	<							<					< 0			
2/28/1996				< 0.02			< 2		98.6	11	341			270	1012			98.6	0.312	< 0.0009	25	0.0181										7.65		< 0.2				141	85.6	12.4		813	2.2	< 3	< 0			
5/23/1996				0.89			3		163	9	581	< 0.4	0.0159	190	1425			163	0.524	0.0019	20.7	0.177										6.97	< 2	< 0.2				185	54.9	15.2		1370	1.5	< 3	< 0			
8/21/1996									118	52					1715				0.355	0.0219	33.3	0.0258										7.51			45.4			14.8		16.6		1870	3.2	5	< 0			
10/30/1996	129	129		< 0.02					209		659				1870				0.886		30	0.0371										7.51			38.5		195	79.2	13.3		1660	1.5					
12/2/1996									208	15					1582				1.62	0.0033	29.4	0.0339										7.08			33.1		189		14.1		1530	2.3	6	< 0			
5/6/1997															<																	<							<					< 0			
8/8/1997															<																	<							<					< 0			
11/20/1997															<																	<							<					< 0			
5/27/1998		108		3.08	0.0321	0.361		< 0.004	286	87	897	< 0.4	0.204		3080	0.0541		286	22.7	0.0313	30.6	2.12			< 0.099999	0.12						7.47			85.8		267	143	17.3		2430	15	71	< 0		0.0094	0.216
8/21/1998									222	15					2080				7.89	0.0237	26.4	0.633										7.48	< 1		47.5		202		15		2040	2.4	20	< 0			
8/7/2001									288	21.2					2130				0.76	< 0.005	7.4	0.52										7.24			179		339		21.9		2090	7.5	< 3				
12/4/2001									59.6	< 10					641				0.21	< 0.005	6.1	0.012										6.41			14.3		65.4		11		416	3.3	< 3				
5/8/2002	79.7	79.7		0.05	< 0.005	0.19		< 0.005	193	11.3	733	< 5	0.013		2451	0.043			2.8	< 0.005	18.3	0.2			< 0.2	< 0.04						7.01	< 10		56		206	55.8	17		1360	< 1	< 3			< 0.025	0.042
8/12/2002									212	< 10									1.2	< 0.005	20.6	0.2										6.64			50.2		192				1950	< 1	< 3		5.7		
5/9/2003		80.3		1.8	< 0.005	0.16		< 0.005	110	15.3	361	< 5	< 0.01		1467	< 0.025			0.36	< 0.005	8.3	0.67			< 0.2	< 0.04			241			6.36	< 10		64.3		120	14.5	10.5		906	2.4	3		1.4	< 0.025	0.13
8/12/2003									123	485					1390				5.2	0.015	8.5	1.6										6.79			66.4		120		23.7		1010	145	75		38		
5/13/2004	525	525	< 0.2	< 0.02	< 0.005	0.056	< 2	< 0.005	77.5	< 10	420	< 5	0.011		3744	< 0.025			0.23	< 0.005	13.9	< 0.01	< 0.0002		< 0.2	< 0.04			153			7.76	< 10		112		696	771	9.7		2240	1.4	< 3		3.1	< 0.025	< 0.02
8/11/2004	520	520		< 0.02	< 0.01				111	< 10	474				2874				0.12	< 0.005	14.4	0.13										6.9			118		520	828	13.5		1740	3.2	< 3		9.2		
12/3/2004	831	831		0.031	< 0.01				102	12.8	296				3070				0.31	< 0.005	17.4	0.098										7.32			106		544	399	7.5		1990	3.1	< 3		12.9		
5/19/2005		395	< 0.2	0.11	< 0.005	0.049	< 2	< 0.005	148	10.7	202	< 5	< 0.01			< 0.025			0.076	< 0.005	19.8	1.2			< 0.2	< 0.04							< 10		53.7		182	140			1020	3.5	37			< 0.025	< 0.02
8/18/2005		416		0.14	< 0.01				136	10.1	95.9				1299				0.22	< 0.005	18	2.2										5.72			33.4		96.1	111	13.6		833	5	< 3		6.2		
12/22/2005		448		0.089	0.014				156	25.3	135				2810				8.3	< 0.005	22.8	15.1										7.7			41.1		129	123	6.9		958	6	33		12.6		
5/12/2006							< 2																																								
5/12/2006		448	< 0.2	0.09	0.02	0.058			158	< 10	98.8	< 5	< 0.01		1453	< 0.025			7.4	< 0.005	24.6	2.8			< 0.2	< 0.04			40			6.8	< 10		40.1		136	140	11.2		935	1.3	9		15.5		< 0.02
5/18/2007		807	< 0.2	0.39	0.014	0.047	< 2		142	< 10	124	< 5	< 0.01		2025	0.028			6.2	0.005	23.6	0.83			< 0.2	< 0.04			-52			7.24	< 10		43.7		161	17.1	10.1		938	3.1	45		18		0.055
5/21/2008		771	< 0.2	1.4	0.01	0.053			152	15.3	135	< 5	< 0.01		2183	< 0.025			4.3	< 0.005	25.1	4.4			< 0.2	< 0.04			-42.3			7.53	< 10		44.2		186	< 1	14.5		993	5.2	< 4		6.4		0.028
5/21/2009		892	< 0.200	1.23	< 0.0050	0.0482	< 2.0		132	< 10.0	98.7	< 5.0	< 0.0100		2164	< 0.0250	5.4		0.882	< 0.0050	21.6	0.552	< 0.0002			< 0.0400	0.086			66	5.37		< 10		40.3		207	2.50	17.1		985	5.4	< 4.0				0.0202
5/18/2010		866	< 0.045	5.13	0.0988	0.242	< 6.0		124	40.9	64.1	< 5.0	< 0.0100		1611	0.271	4		54.3	0.0367	21.2	10.6	< 0.0002			< 0.0400	< 0.050			-136.1	7.09		< 10		36.3		181	< 1.49	21.3		898	5.8	130		289		0.852
5/9/2011		860	0.063	388	0.20	2.6	26		1280	586	6950	< 25	0.013		23610	< 0.025	2.4		84.8	0.0076	155	6.0	< 0.00020			0.042	< 0.050			-79	6.66		< 9.5		1210		2230	58.0	20.7		18600	63.7	168		21.1		< 0.020
5/10/2012		625	< 0.060		0.026	0.090	2.4		110	21.9	67.2	< 5.0	0.0023		1413	0.0082	5.5		7.9	< 0.0050	18.5	1.5	< 0.00020			0.0062	0.035			23.3	6.66		< 9.4		24.7		163	105	16.9		680	3.6	18.0		33.4		0.011
4/12/2013		539	< 0.060	4.0	0.010	0.096	< 2.0		135	26.2	103	< 5.0	0.0087		1373	0.0052	5.8		5.1	0.0046	18.8	1.6	< 0.00020			0.022	0.038			71.8	6.99		< 9.6		21.9		111	< 1.5	12.4		930	7.0	11.2		13.5		0.0058
5/14/2014		505	< 0.060		0.019	0.20	< 6.0		220	46.9	436	< 5.0	0.0028		28700	0.0044	4.2		9.8	< 0.0050	30.6	4.2	< 0.00020			0.0072	0.027			-56.0	7.15		< 9.2		24.7		155	7.8	15.9		1390	11.3	16.4		34.0		0.0015
5/7/2015		343	< 0.060		0.016	0.084	< 2.0		197	10.6	186	< 5.0	0.0041		1669	0.0063	0.8		4.9	< 0.0050	20.7	1.9	< 0.00020			0.033	1.1			10.0	6.03		0.48		19.0		125	282	21.6		1090	4.2	16.8		25.0		0.0072
5/19/2016		270	< 0.060		< 0.0056	0.11	< 2.0		480	17	1000	< 5.0	0.11		4187	< 0.025	5.9		1.8	0.0059	53	0.24	< 0.00020			0.056	5.9			157.3	6.83		< 10		42		300	370	22.4		2700	3.8	< 4.0		17.6		0.044
6/2/2017		470	< 0.080		0.016	0.52	2.8		550	87	2400	< 5.0	0.014			0.086	9.6		4.8	0.021	79	0.36	< 0.00020			0.31	0.69			-30.8	6.99		< 10		300		830	390	16.2		5600	21	18		11.0		1.9
5/10/2018		360	< 0.080		0.0096	0.065	< 2.0		320	29	820	< 1.0	0.051			< 0.025	5.6		3.9	< 0.0050	37	2.2	< 0.00020			< 0.040	0.094			48.1	6.55		< 10		66		350	220	17.9		2400	3.3	9.6	25.6			< 0.020
6/12/2019		300	< 0.080		< 0.0090	0.065	< 2.0		190	37	500	< 1.0	0.066			< 0.025	5.9		1.2	< 0.0050	20	0.18	< 0.00020			< 0.040	< 0.050			72.0	7.17		< 10		64		250	150	23.2		1600	2.3	10	11.9			< 0.020
8ALC																																															
12/16/2003									187	1080				8000	1580				7.3	< 0.005	49.4	6.6										6.98			21.2	< 0.015	103		8.4		1360	359	3		8.8		
5/14/2004	278	278	0.055	57.2	0.023	0.41	410	< 0.005	600	2120	1290	< 5.3	0.056		6412	0.03			69.2	< 0.005	136	46.4	< 0.0002		< 0.2	0.057			-96			6.55	< 390		113	< 0.015	498	151	15.2	< 0.01	4320	375	144		30.3	< 0.025	0.26
8/12/2004	201	201		61.8	0.0097	0.41		< 0.005	400	1200	1050	< 5	0.034		5107	< 0.025			55.4	< 0.005	99.3	34.6	< 0.0002		< 0.2	< 0.04						6.42			106		364	44.7	14.6		3480	401	14		6.6	< 0.025	< 0.02
12/6/2004	124	124		55.5	0.012	0.43		< 0.005	295	1150	817	< 5	0.034		4820	< 0.025			56.3	< 0.005	97.5	23.5			< 0.2	< 0.04						6.96			80.8		313	57.4	7.9		2870	321	100		5.2	< 0.025	< 0.02
5/19/2005							2400																																								
5/19/2005		35.4	0.39	173	0.029	1.4		< 0.005	1050	3530	2980	< 5.3	0.073		12130	< 0.025			123	0.0063	232	50.9			< 0.2	0.057			-70			6.76	800		479	< 0.015	1020	35.2	11.1	< 0.01	8680	848	71		51.3	< 0.025	0.068
8/17/2005		1600		185	0.036	1.2		< 0.005	538	1200	3210	< 5	0.047		12671	< 0.025			128	0.0061	207	9.9			< 0.2	0.055						5.65			431		940	< 1	15.2		7010	338	336		38	< 0.025	0.078
12/19/2005		1470		124	0.046	0.84		< 0.005	395	406	1970	< 5	0.041		4460	< 0.025			73.6	< 0.005	172	6.6			< 0.2	0.047						7.51			326		730	< 1	8.2		4390	120	125		32	< 0.025	< 0.02
5/11/2006		885	0.096	111	0.063	1.1	< 300	< 0.005	548	628	2360	< 5	0.019		48910	< 0.025			95.9	< 0.005	158	8			< 0.2	< 0.04			-74			6.45	< 10		356	< 0.015	734	37.6	11.9	< 0.01	3870	67.3	186		14.6	< 0.025	< 0.02
8/31/2006		688		110	0.051	1.1		< 0.005	491	546	2150	< 5	0.015		7111	< 0.02			83.3	< 0.005	164	7.4			< 0.0002	0.046									366		728	15.9	21.6		4850	91.9	140	450		< 0.02	< 0.02
12/15/2006		1010		124	0.053	1.4		< 0.005	512	748	2380	< 5	0.019			< 0.025			65.6	< 0.005	182	6.5			< 0.2	0.044									396		841	1.7	9.6		6680	94.3	182	21.3		< 0.025	< 0.02
5/17/2007		951	0.05	172	0.058	0.81	18	< 0.005	340	672	2010	< 5	0.016		9055	< 0.025			46.7	< 0.005	121	4.4			< 0.2	< 0.04			-81			7.1	< 10		326	< 0.015	594	151	11.9	< 0.01	3460	71.4	191		50.9	< 0.025	< 0.02
8/16/2007		1460		280	0.088	1.2		< 0.005	380	698	3170	< 5	0.022		10342	< 0.025			71.5	< 0.005	175	5.4			< 0.2	0.059			-98			6.33			588		989	76	17		6870	94.3	30		63.5	< 0.025	< 0.02
12/14/2007		1140		223	0.074	0.98		< 0.005	359	761	2800	< 5	0.016		8186	< 0.025			64.5	< 0.005	157	3.9			< 0.2	0.045			-75			5.6			466		760	260	9.6		5830	87	144		14	< 0.025	< 0.02
5/21/2008		1250	0.066	8.5	0.082	0.71		< 0.005	306	468	1570	< 5	0.011		6900	< 0.025			57.1	< 0.005	124	3.5			< 0.2	< 0.04			-31			7.56	< 10		344	< 0.015	576	183	13.8	< 0.01	4130	69.8	127		63.4	< 0.025	< 0.02
8/19/2008		2860		221	0.071	0.68		< 0.005	279	562	3720	< 5	0.011			< 0.025			50.7	< 0.005	119	4.2			< 0.2	0.048						6.79			370		615	128			4030	67.8	111			< 0.025	< 0.02
12/11/2008		2040		547	0.096	0.61		< 0.005	114	921	3290	< 5	0.07			< 0.025			6	< 0.005	120	1.7			< 0.2	0.07									764		1220	1.3			6350	185	7.2			< 0.025	0.034
5/14/2009		1280	0.034	75.2	0.0532	0.569	6.6	< 0.0050	225	325	1180	< 10	< 0.0100		6397	< 0.0250	5.5		31.3	< 0.0050	92.4	2.63	< 0.0002			< 0.0400	< 0.050			1.1	6.69		< 10		272	< 0.0150	466	99.7	16.8	< 0.0100	3100	49.2	6.0		203.0	< 0.0250	< 0.0200
9/8/2009		1470		39.1	0.128	0.815		< 0.0050	270	711	2150	< 10	0.0122		10390	< 0.0250	5.2		65.2	< 0.0050	146	3.53	< 0.0002			0.0425	< 0.050				6.69				453		860	< 1.49	17.7		5430	95.6	126		78.2	< 0.0250	< 0.0200
11/12/2009		1810		285	0.129	0.645		< 0.0050	230	623	1770	< 10	< 0.0100		7685	< 0.0250	6.2		35.0	< 0.0050	127	3.55	< 0.0002			< 0.0400	< 0.050			115.7	6.89				385		700	161	15		3710	86.4	74.0		18.1	< 0.0250	< 0.0200
5/10/2010		2160	0.123	668	0.0465	0.608	43	< 0.0050	204	499	1860	< 10	0.0498		10790	< 0.0250	5		13.8	< 0.0050	120	2.43	< 0.0002			0.219	< 0.050			32.1	7.04		< 10		532	< 0.0150	692	< 1.49	11.9	< 0.0102	3980	99.8	42.0		27.4	< 0.0250	< 0.0200
8/12/2010		2250		370	0.0914	0.812		< 0.0050	188	768	2330	< 10	0.0242		12110	0.0584	2.7		24.1	0.0082	144	1.97	< 0.0002			0.174	< 0.050			-73	6.81				803		1000	93.6	18.2		4840	157	56.7		148	< 0.0250	0.0254
11/8/2010		1540		103	0.0461	0.313		< 0.0050	151	198	607	< 10	0.0121		3781	< 0.0250	6.9		14.5	< 0.0050	52.3	1.74	< 0.0002			0.0432	0.692			26.8	6.58				245		260	316	13.9		1840	57.3	30.4		20.2	< 0.0250	0.0207
5/10/2011		1600	0.12	298	0.064	0.54	17	< 0.0050	206	585	1450	< 50	0.030		92190	< 0.025	4.7		26.5	< 0.0050	113	2.2	< 0.00020			0.071	< 0.050			-78	6.94		< 9.6		490	< 0.015	653	69.4	14.5	< 0.010	3920	94.8	56.8		20.2	< 0.025	< 0.020
8/11/2011		1880			0.11	0.88		< 0.0050	203	837	2360	< 25	0.031		12650	< 0.025	3.0		42.2	< 0.0050	121	2.4	< 0.00020			0.071	< 0.050			-113.5	6.69				553		801	3.7	19.7		5350	108	112		225.0	< 0.025	< 0.020
11/10/2011		1800			0.19	0.93		< 0.0050	265	776	2560	< 25	0.022		12370	< 0.025	3.7		51.2	< 0.0050	146	4.1	< 0.00020			0.080	< 0.050			39.9	6.83				566		908	21.7	16.9		4890	118	123		17.0	< 0.025	< 0.020
5/11/2012		2530	0.22		0.16	0.54	1000	0.0030	340	2000	1380	< 50	0.042		9379	0.53	0.6		9.9	0.035	162	6.3	0.00016			0.27	< 0.050			-236.8	7.20		69		546	< 0.015	765	679	16.3	< 0.010	5170	635	23.2		27.4	0.0094	0.46
8/17/2012		2170	0.12		0.17	0.60		< 0.0050	131	388	1620	< 50	0.025		8310	< 0.025	5.3		30.5	< 0.0050	113	1.8	< 0.00020			0.17	< 0.050			-115.4	6.61				596		786	175	20.7		3840	133	80.4		315.0	< 0.025	0.021
11/13/2012		2020	0.095		0.061	0.64		< 0.0050	162	911	2240	< 50	0.023		10173	< 0.025	6.3		16.6	< 0.0050	127	1.6	< 0.00020			0.12	< 0.050			40.5	7.04				663		923	214	14.4		4790	164	39.6		59.9	< 0.025	0.032
4/9/2013		2220	< 0.060	285	0.11	0.75	38	< 0.0050	177	917	2280	< 50	0.057		11418	0.0077	4.6		17.3	0.0055	140	1.2	< 0.00020			0.11	0.042			-33.0	7.11		< 200		711	< 0.015	1040	69.8	14.0	< 0.010	5060	227	37.6		47.7	0.010	0.016
8/13/2013		2970	0.087		0.085	0.57		0.00092	143	964	2390	< 50	0.11		11768	0.034	4.6		11.2	0.0088	129	0.96	< 0.0002			0.12	< 0.05			-17.5	7.16				1120		1080	< 1.5	20.2		5980	245	16.8		35.6	0.013	0.032
11/12/2013		2990	0.079		0.087	0.95		0.00057	158	993	2940	< 50	0.076		13566	0.013	5.2		12.5	< 0.0050	154	0.83	< 0.00020			0.13	0.041			-69.3	7.34				1080		1460	1.6	13.8		6550	247	14.8		43.9	0.014	0.017
5/14/2014		3280	0.073		0.14	0.94	52	0.00050	102	788	2960	< 50	0.042		14100	0.0095	5.0		16.6	0.0030	125	0.59	< 0.00020			0.11	0.16			-61.0	6.98		< 210		822	< 0.015	1180	< 1.5	18.4	< 0.010	6020	259	47.6		162.0	0.015	0.0089
11/5/2014		3140	< 0.045		0.13	1.1		< 0.0050	137	773	3530	< 50	0.078		15200	0.0025	0.7		17.4	0.012	169	0.65	< 0.00020			0.16	< 0.050			-117.0	7.04				1030		1570	< 1.5	19.9		6880	223	45.2		33.3	0.018	0.0037
4/30/2015		3290	< 0.060		0.12	0.86	42	< 0.0050	109	674	3500		0.045		13700	0.0024	0.9		13.9	< 0.0050	155	0.44	< 0.00020			0.13	0.075			-86.0	7.60		< 210		902	< 0.015	1370	< 1.5	19.0	< 0.010	6720	212	52.8		10.9	0.018	0.0020
5/11/2015												< 50																																			
8/28/2015		3340	< 0.045		0.12	0.91		0.0010	108	725	3490	< 50	0.049		11900	< 0.025	4.2		12.7	< 0.0050	159	0.40	< 0.00020			0.15	0.037			182.0	7.05				858		1450	2.0	23.9		6470	175	34.0		28.5	0.019	0.0068
11/19/2015		3500	< 0.045		0.16	0.92		< 0.0050	110	720	3900	< 50	0.062		14.9	< 0.025	4.7		14	0.0064	160	0.36	< 0.00020			0.14	< 0.050			-18.0	7.31				970		1500	1.8	17.5		7300	160	48		137.0	< 0.025	< 0.020
5/20/2016		3600	0.062		0.15	0.85	33	< 0.0050	110	710	3900	< 50	0.060		14924	< 0.025	2.9		11	< 0.0050	160	0.33	< 0.00020			0.14	0.056			74.2	7.06

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																															
8ALC																																															
8/24/2016		3200	0.076		0.12	0.92		< 0.0050	110	870	3500	< 50	0.062		17095	< 0.025	2.7		9.3	< 0.0050	160	0.36	< 0.00020			0.14	< 0.050			-59.5	7.03			980		1600	< 1.5	23.3		7000	250	15		14.2	< 0.025	< 0.020
11/15/2016		3300	< 0.050		0.17	0.85		< 0.0050	100	710	3800	< 50	0.065		15155	< 0.025	2.7		13	< 0.0050	150	0.34	< 0.00020			0.14	0.066			-28.4	7.26			1100		1600	< 5.0	13.8		720	240	50		84.5	< 0.025	< 0.020
6/9/2017		3600	< 0.080		0.13	0.85	36	< 0.0050	100	530	3700	< 50	0.058			< 0.025	1.9		8.1	< 0.0050	140	0.41	< 0.00020			0.15	0.055			-9.8	7.24		< 200	1100	< 0.015	1700	< 5.0	19.0	< 0.020	7500	200	< 4.0		29.1	< 0.025	< 0.020
8/31/2017		3900	0.064		0.15	0.84		< 0.0050	100	670	3900	< 50	0.062			< 0.025	5.1		12	< 0.0050	150	0.39	< 0.00020			0.16	< 0.050			-67.0	7.29			1000		1600	< 5.0	21.7		7800	230	34		37.9	< 0.025	< 0.020
11/16/2017		3900	< 2.5		0.12	0.76		< 0.0050	100	560	3500	< 100	0.082			< 0.025	5.0		10	< 0.0050	130	0.65	< 0.00020			0.15	< 0.050			-45.4	7.17			1100		1700	< 5.0	16.3		8100	240	17	23.5		< 0.025	< 0.020
5/9/2018		4000	0.089		0.17	0.57	58	< 0.0050	96	1300	2900	< 20	0.11			< 0.025	3.3		9.6	< 0.0050	130	0.77	< 0.00020			0.18	< 0.050			46.4	7.22		< 1000	1100	< 0.015	1500	< 5.0	23.0	< 0.020	7000	250	12	20.0		0.027	< 0.020
8/30/2018		4500	< 0.25		0.12	0.68		< 0.0050	97	760	2700	< 20	0.12			< 0.025	4.6		5.2	< 0.0050	120	0.65	< 0.00020			0.19	< 0.050			101.4	7.11			1300		1600	< 5.0	23.3		7700	270	< 4.0	11.3		0.032	< 0.020
11/27/2018		3900	< 2.5		0.24	0.62		< 0.0050	99	980	2700	< 20	0.12			0.030	6.6		6.8	0.0059	130	0.73	< 0.00040			0.21	0.070			-72.9	7.34			1300		1500	5.6	15.7		6000	170	26	7.5		0.031	0.028
6/12/2019		4200	< 0.080		0.16	0.77	120	< 0.0050	99	1300	3300	< 20	0.15			< 0.025	2.9		6.0	< 0.0050	130	0.54	< 0.00020			0.18	< 0.050			64.4	7.60		< 1000	1200	< 0.015	1600	< 5.0	26.4	< 0.020	9000	83	8.0	21.8		0.036	< 0.020
8/28/2019		4200	< 0.25		0.24	0.64		< 0.0050	97	1000	3600	< 20	0.11			< 0.025	4.6		8.9	< 0.0050	120	0.53	< 0.00020			0.18	< 0.050			41.3	7.38			1200		1700	< 5.0	25.3		5900	230	31	43.9		0.034	< 0.020
11/25/2019		4300	< 0.25		0.17	0.71		< 0.0050	99	1000	3700	< 20	0.11			< 0.025	3.6		7.1	< 0.0050	130	0.42	< 0.00020			0.18	1.2			-71.2	7.38			1100		1700	< 5.0	17.1		5000	300	28	13.4		0.032	< 0.020
8AWD																																															
6/11/2003	105	105		< 0.02	< 0.01	0.023		< 0.0005	41.8	< 10	5.5	< 5	< 0.01		300	< 0.002			0.065		5.9	0.02			< 0.2	< 0.04			258			7.03		5.6	< 0.0002	6.8	27.7	18.3		174				< 0	< 0.04	< 0.02
8/12/2003	129	129		< 0.02	< 0.01	0.035		< 0.0005	41.9	< 10	8.5	< 5	< 0.01		281	0.0087			0.066		6.9	< 0.01			< 0.2	< 0.04			57			6.95		5.6	< 0.0002	6.8	18.5	20.8		230				2.1	< 0.04	< 0.02
12/5/2003	186	186		< 0.02	< 0.01	0.019		< 0.0005	49.2	< 10	13.1	< 5	< 0.01		341	0.0023			< 0.03		11.4	2	< 0.0002		< 0.2	< 0.04			25.3			6.82		4.6	< 0.0002	13.4	29.5	8.3		219				5	< 0.04	< 0.02
5/12/2004	202	202		0.15	< 0.01	0.016		< 0.0005	42.1	< 10	8.8	< 5	< 0.01		392	< 0.002			0.051		10.9	2	< 0.0002		< 0.2	< 0.04			164			6.66		3.9	< 0.0002	21.6	21.5	9.2		207				0.5	< 0.04	< 0.02
8/10/2004	166	166		0.081	< 0.01	0.021		< 0.0005	49.5	< 10	17.3	< 5	< 0.01		471	< 0.002			0.11		12.8	2.7	< 0.0002		< 0.2	< 0.04			8.9			6.37		4.6	< 0.0002	23	24.4	17		241				4.5	< 0.04	< 0.02
12/3/2004	203	203		0.1	< 0.01	0.024		< 0.0005	53.4	< 10	19.3	< 5	< 0.01		472	< 0.002			0.4		13.5	3.3			< 0.2	< 0.04			4.2			6.63		4.9	< 0.0002	23.3	29.6	5.5		254				1.6	< 0.04	< 0.02
3/30/2005	178	178		0.076	< 0.01	0.018		< 0.0005	41.4	< 10	9.6	< 5	< 0.01		365	< 0.002			0.3		11.5	2.9	< 0.0002		< 0.2	< 0.04			54.7			7.1		4	< 0.0002	24.4	21.7	10.5		266				2.8	< 0.04	< 0.02
8/16/2005		128		0.11	< 0.01	0.019		< 0.0005	46.9	< 10	10.3	< 5	< 0.01		415	< 0.002			0.17		12	2.2	< 0.0002		< 0.2	< 0.04			76			6.08		4.3	< 0.0002	20.5	26.5	11.7		264				2.6	< 0.04	< 0.02
12/28/2005		184		0.044	< 0.01	0.024		< 0.0005	54.1	< 10	8.1	< 5	< 0.01		377	< 0.002			0.8		13	3	< 0.0002		< 0.2	< 0.04			11			5.74		4.4	< 0.0002	19.1	34.2	8.2		257				3.3	< 0.04	< 0.02
5/16/2006		178		0.059	< 0.005	0.023		< 0.0005	53.6	< 10	6.9	< 5			533	< 0.002			0.37		13.9	3.9							80			5.98		4.8		22.2	24.6	11.5		263				2.8		
5/23/2007		216		< 0.02	< 0.005	0.027		< 0.0005	54.1	< 10	7.1	< 5			491	< 0.002			1.4		13.5	4.2							53			6.13		5		16.4	25.1	13.7		263				2.5		
5/21/2008		266		0.65	0.0093	0.031		< 0.0005	63.4		5.8	< 5			598	< 0.002			7.4		15.7	8							37			7.09		5		17.1	33.9	13.5		285	2.7			9.4		
5/21/2009		285		0.182	0.0073	0.0231		< 0.0005	52.6		5.7	< 5.0			806	< 0.0020	4.8		5.61		14.7	7.43					< 0.050		52	6.09				4.38		14.8	31.0	16.7		297	3.2			14.2		
5/18/2010		244		< 0.122	0.0065	0.0320		< 0.0005	64.6		12.5	< 5.0			612	< 0.0020	2.4		7.85		17.2	10.4					0.395		163.8	6.11				5.37		16.9	33.2	14.6		319	2.3			8.1		
5/9/2011		302		< 0.20	0.0083	0.032		< 0.00050	65.3		6.9	< 5.0			579	< 0.0031	2.0		3.5		19.5	8.8					< 0.050		24	6.38				5.6		18.9	38.2	14.8		328	2.1			4.4		
5/10/2012		343			< 0.0056	0.034		0.00018	88.4		10.3	< 5.0			642	0.00066	5.9		1.7		22.3	6.2					< 0.050		6.18262	6.18				6.4		12.4	28.0	14.1		361	1.5			33.9		
4/12/2013		271		0.18	0.015	0.034		0.00013	74.2		5.4	< 5.0			569	0.00095	1.9		2.5		18.0	6.3					0.023		7.0	6.35				4.9		11.7	25.8	11.7		326	2.6			9.3		
5/9/2014		286			< 0.0056	0.035		0.00017	67.9		31.0	< 5.0			584	0.00038	1.0		3.4		17.1	7.6					0.23		-32.0	6.48				6.1		16.9	27.9	17.7		326	2.5			0		
4/30/2015		242			< 0.0056	0.030		0.000077	63.4		4.8	< 5.0			461	0.00041	0.8		0.95		16.2	5.6					0.23		94.0	6.88				5.2		12.3	27.3	14.5		252	1.9			3.2		
5/19/2016		270			0.0058	0.031		< 0.00050	67		3.0	< 5.0			493	< 0.0031	2.9		3.4		16	5.9					0.47		60.5	6.34				5.6		13	26	19.1		260	1.6					
6/1/2017		240			< 0.0090	0.030		< 0.00050	62		3.6	< 5.0				< 0.0031	2.7		0.56		17	4.9					0.82		13.0	6.11				5.3		13	23	19.8		270	1.4			3.2		
5/9/2018		240			< 0.0090	0.027		< 0.00050	61		19	< 1.0				< 0.0020	2.6		1.1		17	4.8					0.36		35.6	6.08				5.1		14	26	18.7		270	2.0		14.1			
6/17/2019		200			< 0.0090	0.029		< 0.00050	54		5.9	< 1.0				< 0.0031	1.8		3.9		15	4.2					0.82		-12.7	6.53				4.8		14	19	22.3		260	2.3		136.0			
8BCWD																																															
8/10/2004	492	492		1.4	0.014	0.062		< 0.0005	131	197	107	< 5	< 0.01		1238	0.0042			14.9		35.6	12	< 0.0002		< 0.2	< 0.04			-7.9			6.78		13	< 0.0002	81.9	48.2	19.3		764				63.9	< 0.04	< 0.02
12/3/2004	148	148		19.2	< 0.01	0.037		< 0.0005	45.5	276	58.4	< 5	0.034		666	0.0068			3.6		13.4	0.71			< 0.2	< 0.04			10			7.2		16.6	< 0.0002	49.8	85.1	4.7		396				70.7	< 0.04	< 0.02
5/19/2005		270		1.5	0.02	0.059		< 0.0005	72.3	68.6	62.3	< 5	< 0.01		784	0.047			14.4		22.4	11.2			< 0.2	< 0.04			-19.8			6.41		8.9	< 0.0002	51.2	31.6	15.7		454				41	< 0.04	< 0.02
8/16/2005		412		1.5	0.029	0.07		< 0.0005	90.1	63.3	92	< 5	< 0.01		465	< 0.002			24.9		33.3	20.1	< 0.0002		< 0.2	< 0.04			101			5.98		10.5	< 0.0002	65.9	13.7	16.9		621				1.2	< 0.04	< 0.02
12/28/2005		396		1.8	0.048	0.091		< 0.0005	118	42.3	100	< 5	< 0.01		909	0.0034			36.1		42	23.1	< 0.0002		< 0.2	< 0.04			21			5.3		14.1	< 0.0002	85.8	10.6	9		779				31.3	< 0.04	< 0.02
5/16/2006		325		1.1	0.029	0.068		< 0.0005	73.4	45.5	84.8	< 5	< 0.01		1124	0.0028			31.6		29.8	26.9			< 0.2	< 0.04			-54			6.51		7.6	< 0.0002	59.7	24.4	11.5		559				10.3	< 0.04	< 0.02
8/31/2006		252		1.4	0.044	0.075		< 0.0005	86.5	46.9	81.8	< 5	< 0.01		1050	0.0023			35.2		32.6	21.4			< 0.0002	< 0.04			20.6					10.1	< 0.0002	64.3	21.1	19.7		593			25		< 0.04	< 0.02
12/15/2006		411		1.5	0.051	0.088		< 0.0005	80.6	42.9	80	< 5	< 0.01			< 0.002			37.6		32.3	24.7			< 0.2	< 0.04			-85					9.8	< 0.0002	66.4	22.5	10.2		669			11.4		< 0.04	< 0.02
5/23/2007		460		2.4	0.059	0.086		< 0.0005	92.3	48.5	72	< 5	< 0.01		1154	< 0.002			38.7		35.2	16			< 0.2	< 0.04			-51			6.17		14	< 0.0002	68.2	17.9	15.8		610				26	< 0.04	< 0.02
8/16/2007		134		1.8	0.01	0.038		< 0.0005	28.3	27.5	39.4	< 5	< 0.01		813	0.01			12.7		12.8	11			< 0.2	< 0.04			-85			6.94		7.4	0.0004	18	16.8	16.4		223				10.5	< 0.04	< 0.02
12/14/2007		246		1.4	0.046	0.07		< 0.0005	54.6	24.2	33.7	< 5	< 0.01		654	0.0025			39.3		19.8	15.4			< 0.2	< 0.04			-70			6.29		6	< 0.0002	27.4	11.8	10.3		448	8.6			7.4	< 0.04	< 0.02
5/21/2008		425		2.6	0.073	0.11		< 0.0005	81.7	54.8	101	< 5	< 0.01		1345	0.0022			48.6		38.7	31.4			< 0.2	< 0.04			-16			7.23		12.4	< 0.0002	75.2	27.7	14.5		705	17.8			22.1	< 0.04	< 0.02
8/19/2008		112		4.4	0.041	0.077		< 0.0005	54.6	43.9	89.8	< 5	< 0.01			0.002			28.8		26.3	19.5			< 0.2	< 0.04						6.11		10.6	< 0.0002	54.5	11.8			501	12.6				< 0.04	0.025
12/11/2008		124		4.3	0.03	0.063		< 0.0005	45.6	32.6	47.1	< 5	< 0.01			< 0.002			35.8		21.2	20.3			< 0.2	< 0.04								7.1	< 0.0002	34.8	17.7			333	8.8				< 0.04	< 0.02
5/21/2009		222		1.01	0.0202	0.0454		< 0.0005	44.4	< 10.0	35.1	< 5.0	< 0.0100		651	0.0024	2.8		30.2		23.0	21.0	< 0.0002				< 0.0400	< 0.050		-5	5.09				2.95	< 0.0002	25.4	23.6	19.1		350	7.2			6.2	< 0.0400	< 0.0200
9/8/2009		177		514	0.0225	0.0439		< 0.0005	44.3	29.1	32.9	< 5.0	< 0.0100		697	< 0.0020	2.6		31.3		23.0	19.0	< 0.0002				< 0.0400	< 0.050		0.6	6.10				3.32	< 0.0002	24.5	16.9	20.5		303	8.1			8.1	< 0.0400	< 0.0200
11/12/2009		86.8		1.37	0.0278	0.0325		< 0.0005	33.6	13.1	19.2	< 5.0	< 0.0100		741	< 0.0020	2.2		21.3		13.8	8.91	< 0.0002				< 0.0400	< 0.050		47	7.50				2.94	< 0.0002	15.8	12.2	15.3		223	4.6			16.3	< 0.0400	< 0.0200
5/18/2010		110		1.74	0.0756	0.0625		< 0.0005	66.6	30.3	48.7	< 5.0	< 0.0100		897	< 0.0020	2.5		46.2		23.4	13.3	< 0.0002				< 0.0400	< 0.050		-166.6	6.19				6.43	< 0.0002	43.4	16.3	18.3		476	4.8			6.7	< 0.0400	< 0.0200
8/12/2010		376		< 10	0.0785	0.0831		< 0.0005	74.8	36.7	63.7	< 5.0	< 0.0100		1137	< 0.0020	2.5		64.8		32.1	22.6	< 0.0002				< 0.0400	< 0.050		-53	6.18				7.94	< 0.0002	57.8	14.3	21.1		544	14.8			7.3	< 0.0400	< 0.0200
11/8/2010		282		1.56	0.0480	0.0782		< 0.0005	53.5	43.5	70.7	< 5.0	< 0.0100		910	0.0026	2.5		69.3		26.1	23.8	< 0.0002				< 0.0400	< 0.050		-21.4	5.14				6.38	< 0.0002	47.3	8.13	14.8		478	7.0			14.2	< 0.0400	0.0260
5/9/2011		501		7.0	0.17	0.12		< 0.00050	75.2	68.1	145	< 5.0	< 0.010		1412	< 0.0020	1.8		60.8		40.6	14.5	< 0.00020				< 0.040	< 0.050		-40	6.27				16.2	< 0.00020	106	3.5	18.7		759	21.1			17.4	< 0.040	< 0.020
8/11/2011		545			0.14	0.14		< 0.00050	78.3	71.4	129	< 5.0	< 0.010		1832	0.0024	1.9		71.4		45.2	18.0	< 0.00020				< 0.040	< 0.050		-88.1	6.24				17.9	< 0.00020	118	< 1.5	21.4		798	20.0			29.0	< 0.040	< 0.020
11/10/2011		480			0.15	0.12		< 0.00050	70.7	71.8	124	< 5.0	< 0.010		1664	< 0.0020	1.5		61.3		42.1	15.3	< 0.00020				< 0.040	< 0.050		16.4	6.28				16.3	< 0.00020	104	4.0	18.4		703	19.3			31.4	< 0.040	< 0.020
5/10/2012		259			0.029	0.054		< 0.00050	32.1	37.6	39.1	< 5.0	< 0.010		734	0.0020	2.8		64.9		21.6	15.5	< 0.00020				0.011	< 0.050		-43.0	5.74				3.9	< 0.00020	30.9	17.5	14.5		364	8.8			20.5	< 0.040	0.025
8/17/2012		335			0.11	0.13		0.00031	61.8	77.7	116	< 5.0	0.0026		1472	0.0061	2.4		88.0		41.6	18.6	< 0.00020				0.014	0.033		93.8	6.59				13.5	< 0.00020	97.7	20.5	21.9		701	18.3			34.9	0.031	0.014
11/13/2012		440			0.18	0.12		< 0.00050	67.2	55.3	115	< 5.0	< 0.010		1354	0.0020	2.3		63.7		42.8	10.7	< 0.00020				0.016	0.047		60.8	6.33				16.3	< 0.00020	109	7.1	15.5		672	17.8			24.4	0.0059	0.011
4/12/2013		149		0.89	0.014	0.029		0.000068	23.2	32.9	22.4	< 5.0	< 0.010		463	0.0012	1.8		35.3		17.0	10.8	< 0.00020				0.0033	0.023		-69.6	6.27				2.1	< 0.00020	16.1	< 1.5	12.3		226	5.4			30.3	< 0.040	0.011
8/13/2013		50.7			0.024	0.039		< 0.0005	33.1	24.4	29.9	< 5	0.0028		626	0.0015	1.8		47.6		19.1	10.2	< 0.0002				0.0022	< 0.05		-74.2	6.28				2.8	< 0.0002	21.3	6.2	18.1		317	5.2			21.6	< 0.04	0.0058
11/12/2013		286			0.037	0.068		0.00024	54.8	33.6	42.6		< 0.010		878	0.0013	3.8		72.5		31.7	14.2	< 0.00020				0.0035	0.048		-52.9	6.49				4.2	< 0.00020	33.9	1.5	13.0		426	8.5			8.1	0.0026	0.021
11/25/2013												< 5.0																																			
5/9/2014		492			0.22	0.12		< 0.00050	73.4	70.6	117	< 5.0	< 0.010		1410	0.0015	1.6		61.1		40.4	6.3	< 0.00020				0.014	< 0.050		-90.0	6.46				16.2	< 0.00020	106	< 1.5	17.9		710	19.0			5.4	< 0.040	< 0.020
11/4/2014		497			0.19	0.13		< 0.00050	71.5	56.1	99.8	< 5.0	< 0.010		1150	0.0027	2.8		57.2		44.3	7.4	< 0.00020				0.013	< 0.050		-55.0	6.24				16.8	< 0.00020	103	< 1.5	14.0		644	18.6			116.0	0.0028	0.016
4/30/2015		397			0.0074	0.050		< 0.00050	56.9	46.5	92.4	< 5.0	< 0.010		992	0.0017	3.3		1.3		37.1	3.5	< 0.00020				0.010	0.046		277.0	7.08				17.5	< 0.00020	90.9	< 1.5	13.0		533	14.7			11.2	< 0.040	0.0065
8/19/2015		478			0.26	0.13		< 0.00050	70.1	70.1	99.7	< 5.0	< 0.010		1180	0.0016	1.2		63.0		43.7	6.1	< 0.00020				0.017	< 0.050		84.0	6.23				17.7	< 0.00020	104	2.2	28.1		683	21.0			0	< 0.025	0.0038
11/19/2015		510			0.30	0.12		< 0.00050	73	77	110	< 5.0	< 0.010		1100	< 0.0020	2.2		46		41	1.0	< 0.00020				< 0.040	< 0.050		-24.0	6.31				20	< 0.00020	110	1.7	13.0		640	25			15.0	< 0.040	< 0.020
5/19/2016		480			0.29	0.11		< 0.00050	67	57	91	< 5.0	< 0.010		1172	< 0.0020	2.0		45		39	2.8	< 0.00020				< 0.040	< 0.050		-38.5	6.30				19	< 0.00020	96	2.8	22.4		560	19			10.2	< 0.040	< 0.020
8/24/2016		380			0.27	0.10		< 0.00050	62	51	80	< 5.0	< 0.010		1213	< 0.0020	2.5		42		36	2.3	< 0.00020				< 0.040	< 0.050		-60.2	6.28				16	< 0.00020	86	< 1.5	23.6		560	18			7.5	< 0.040	< 0.020
11/15/2016		376			0.34	0.12		< 0.00050	68	62	96	< 5.0	< 0.010		1419	< 0.0020	2.6		45		40	2.3	< 0.00020				< 0.040	< 0.050		-48.7	6.49				21	< 0.00020	100	< 5.0	16.0		620	21			52.3	< 0.040	< 0.020
6/1/2017		408			0.43	0.11		< 0.00050	54	48	67	< 5.0	< 0.010			0.024	3.4		65		32	2.9	< 0.00020				< 0.040	0.063		64.2	6.42				14	< 0.00020	68	< 5.0	24.2		470	14			20.1	< 0.040	< 0.020
8/31/2017		480			0.26	0.11		< 0.00050	61	61	78	< 50	< 0.010			< 0.0020	3.1		54		35	3.3	< 0.00020				< 0.040	< 0.050		-63.0	6.35				15	< 0.00020	77	< 5.0	21.2		560	17			3.3	< 0.040	< 0.020
11/16/2017		452			0.28	0.11		< 0.00050	65	67	87	< 50	< 0.010			< 0.0020	6.4		47		38	2.3	< 0.00020				< 0.040	< 0.050		-63.2	6.42				18	< 0.00020	89	< 5.0	12.7		580	18		9.4		< 0.040	< 0.020
5/9/2018		310			0.34	0.094		< 0.00050	48	52	63	< 10	< 0.010			0.0025	1.7		44		28	2.1					< 0.040	< 0.050		34.2	6.28				13	< 0.00020	63	< 5.0	23.6		440	13		5.4		<

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
8BLC																																																
12/6/2004	285	285		18	0.0066	0.17		< 0.005	263	639	600	< 5	0.012		2630	< 0.025			8.7	< 0.005	26.5	10.6			< 0.2	0.079							6.72			61.7		130	146	8.5		2080	170	23		8.1	< 0.025	0.2
5/19/2005							2000																																								
5/19/2005		1660	0.24	186	0.047	0.92		< 0.005	560	2440	1890	< 5	0.088		8567	< 0.025			41.8	< 0.005	168	23.2			< 0.2	0.096			-16.7				6.66	280		351	< 0.015	736	68.6	13.8	< 0.01	6500	1050	62		22.8	< 0.025	0.034
8/17/2005		159		238	0.053	0.8		< 0.005	359	1450	2270	< 5	0.05		9634	< 0.025			54.9	< 0.005	168	9.7			< 0.2	0.055							5.83			356		743	36.4	19.4		5750	408	188		18.1	< 0.025	< 0.02
12/19/2005		2080		647	0.1	2.3		< 0.005	658	943	6170	< 5	0.063		11220	< 0.025			67.5	0.0056	347	3.1			< 0.2	0.09							7.34			1140		1750	5.4	13.1		10800	321	105		44.9	< 0.025	0.044
5/11/2006		2100	1.8	638	0.13	1.7	154	< 0.005	494	1220	7020	< 5	0.051		12310	0.035			58.7	0.012	306	2.1			< 0.2	0.099			-98				6.79	< 10		1210	< 0.015	1820	78.8	15.5	< 0.01	8060	271	143		116	< 0.025	0.13
8/31/2006		1120		377	0.24	1		< 0.005	381	721	3600	< 5	0.022		10870	< 0.02			24.7	0.0057	210	2.4			< 0.0002	0.059										< 0.1		1130	119	23		6590	147	57	230		< 0.02	0.047
12/15/2006		1950		526	0.16	2.1		< 0.005	616	1580	7050	< 5	0.11			< 0.025			30.9	< 0.005	353	2.4			< 0.2	0.33										1440		2320	4.2	17.1		16700	177	68	31.9		< 0.025	0.038
5/17/2007		2210	0.095	977	0.16	1.4	82	< 0.005	434	1660	5980	< 5	0.052		21651	0.027			20.1	< 0.005	258	1.8			< 0.2	0.092			-85				6.87	< 10		1100	< 0.015	1780	16.4	18.5	< 0.01	12900	185	180		69.8	< 0.025	0.025
8/16/2007		2420		988	0.24	1.5		< 0.005	370	1430	6020	< 5	0.054		19202	< 0.025			23	< 0.005	254	1.6			< 0.2	0.098			-65				6.34			1230		1940	4.4	24.6		17000	192	100		164	< 0.025	< 0.02
12/14/2007		2620		1970	0.13	1.5		< 0.005	354	2050	3320	< 5	0.071		20740	< 0.025			7.4	< 0.005	261	1.3			< 0.2	0.11			-68				6.39			1390		2060	6.4	16.5		15200	223	22.8		40.8	< 0.025	< 0.02
5/21/2008		3110	0.11	496	0.15	1		< 0.005	225	1300	4800	< 5	0.15		17820	< 0.025			7.7	< 0.005	196	0.82			< 0.2	0.13			-15				7.26	< 10		1130	< 0.015	1790	1.1	26.2	< 0.01	9030	255	8		23.7	0.029	< 0.02
8/19/2008		3320		814	0.16	0.85		< 0.005	156	1760	4410	< 5	0.08			< 0.025			4.9	< 0.005	163	0.55			< 0.2	0.11							7.41			966		1570	< 1			7840	309	< 4			0.029	0.022
12/11/2008		2340		613	0.33	1		< 0.005	187	1070	3270	< 5	0.06			0.026			20.5	< 0.005	140	0.74			< 0.2	0.11										822		1270	1.9			6700	180	61.2			0.027	0.076
5/14/2009		2670	0.056	190	0.125	0.732	36	< 0.0050	181	1060	3340	< 10	0.0435		15670	< 0.0250	4.6		5.59	< 0.0050	139	0.727	< 0.0002			0.0652	< 0.050		-33.3	7.31		< 25			762	< 0.0150	1280	1.85	23.2	< 0.0100	6930	202	10.9		18.2	< 0.0250	< 0.0200
9/8/2009		2880		432	0.126	0.899		< 0.0050	182	1280	4280	< 10	0.0604		18930	< 0.0250	4.6		4.77	< 0.0050	155	0.739	< 0.0002			0.111	< 0.050			7.23					946		1650	< 1.49	26.6		9380	269	< 4.0		17.9	< 0.0250	< 0.0200
11/12/2009		2180		648	0.134	0.762		< 0.0050	168	1460	3610	< 10	0.0439		15220	< 0.0250	3.1		7.67	< 0.0050	141	0.737	< 0.0002			0.0850	0.053		122	7.23					893		1610	3.67	23.4		6160	165	6.4		30.2	< 0.0250	< 0.0200
5/10/2010		2980	0.120	231	0.119	0.813	60	< 0.0050	166	1200	4000	< 10	0.0600		20580	< 0.0250	4.2		6.14	< 0.0050	134	0.723	< 0.0002			0.101	< 0.050		26.5	7.41		< 10			874	< 0.0150	1490	< 1.49	19.9	< 0.0102	7860	206	< 4.0		16.3	< 0.0250	< 0.0200
8/12/2010		3280		990	0.146	0.955		< 0.0050	148	1470	4180	< 10	0.0600		18920	< 0.0250	3.3		9.43	< 0.0050	142	0.733	< 0.0002			0.108	< 0.050		33	7.23					1070		1660	1.62	28.2		8610	270	5.6		41.4	< 0.0250	< 0.0200
11/8/2010		2840		351	0.115	0.484		< 0.0050	120	706	1910	< 10	0.0592		9765	0.246	2.7		11.3	0.0761	76.6	0.831	< 0.0002			0.109	0.145		-22.4	5.91					612		628	393	18.4		4010	162	95.3		206	< 0.0250	0.375
5/10/2011		3690	0.33	662	0.11	0.65	50	< 0.0050	124	1110	2410	< 50	0.12		15300	0.026	2.6		4.4	0.0092	106	0.55	< 0.00020			0.13	< 0.050		7	7.36		< 9.6			1040	< 0.015	1220	< 1.5	22.2	< 0.010	6000	236	< 4.0		34.2	0.030	0.043
8/11/2011		4420			0.15	0.73		< 0.0050	113	1620	3480	< 25	0.10		2110	< 0.025	3.5		6.0	< 0.0050	122	0.60	< 0.00020			0.15	< 0.050		29.9	7.27					1140		1560	< 1.5	26.7		6920	279	7.2		26.6	0.035	< 0.020
11/10/2011		3490			0.12	0.65		< 0.0050	112	1480	3200	< 50	0.087		17790	< 0.025	3.8		6.5	< 0.0050	111	0.57	< 0.00020			0.13	< 0.050		116.9	7.44					975		1390	6.2	23.8		6600	255	61.2		20.6	0.026	< 0.020
5/11/2012		3760	0.10		0.11	0.68	93	0.00063	131	1170	2640	< 50	0.098		15120	0.057	3.8		9.7	0.0049	108	0.99	< 0.00020			0.15	0.027		-45.5	7.36		7.5			914	< 0.015	1280	9.5	20.4	< 0.010	6690	306	13.2		73.9	0.029	0.048
8/17/2012		4490	0.13		0.16	0.76		< 0.0050	121	1380	3160	< 50	0.14		16122	< 0.025	3.2		10.7	< 0.0050	119	0.63	< 0.00020			0.15	< 0.050		-23.1	7.29					1040		1500	< 1.5	26.8		7650	331	5.2		101.5	0.045	< 0.020
11/13/2012		4890	0.19		0.15	0.69		< 0.0050	102	1620	2700	< 50	0.19		15840	< 0.025	4.2		8.0	< 0.0050	107	0.47	< 0.00020			0.16	< 0.050		185.8	7.19					1110		1480	4.6	17.0		5780	410	5.6		29.8	0.053	0.024
4/9/2013		5430	0.11	733	0.18	0.69	67	< 0.0050	95.2	1680	2770	< 50	0.17		16658	0.0069	3.0		8.1	0.0039	104	0.40	< 0.00020			0.15	< 0.050		62.5	7.50		< 49			1080	< 0.015	1530	8.8	19.4	< 0.010	6050	442	< 4.0		13.3	0.049	0.0097
8/13/2013		4720	0.16		0.13	0.61		0.0013	95.6	1380	2970	< 50	0.16		15112	0.018	3		7	0.01	98.3	0.39	< 0.0002			0.15	< 0.05		24	7.48					1090		1320	1.6	25.2		6550	380	< 4		8	0.042	0.017
11/12/2013		5280	0.15		0.20	0.86		< 0.0050	103	1580	3960	< 50	0.17		18512	0.0070	4.6		7.6	< 0.0050	127	0.36	< 0.00020			0.16	< 0.050		-27.3	7.78					1470		1930	< 1.5	19.3		7480	428	< 4.0		22.1	0.048	0.013
5/14/2014		5710	0.14		0.18	0.66	68	0.00062	73.0	1250	3340	< 50	0.18		17600	0.011	3.8		5.1	0.0049	92.6	0.27	< 0.00020			0.19	< 0.050		25.0	7.52		< 56			1110	< 0.015	1610	1.7	24.2	< 0.010	7310	463	< 4.0		31.1	0.042	0.0098
11/5/2014		5250	0.13		0.19	0.70		< 0.0050	83.6	1300	3420	< 100	0.21		18500	0.0049	0.5		6.7	0.019	105	0.28	< 0.00020			0.19	< 0.050		-50.0	8.66					1210		1790	2.6	24.0		6570	403	< 4.0		115.0	0.046	0.015
4/30/2015		5090	4.2		0.25	0.84	87	0.0012	74.5	1400	3380		0.28		15900	0.21	6.3		73.7	0.068	99.3	0.43	< 0.00020			0.20	< 0.050		2.0	7.86		< 48			1280	< 0.015	1620	< 1.5	23.8	< 0.010	8020	380	1670		20.9	0.089	0.47
5/11/2015												< 100																																				
8/28/2015		5360	0.21		0.18	0.77		0.0013	73.6	1350	4260	< 100	0.23		17600	0.017	0.2		7.4	< 0.0050	115	0.32	< 0.0010			0.23	0.031		134.0	7.36					1430		2020	3.9	28.4		9720	409	< 4.0		8.8	0.051	0.017
11/19/2015		5700	0.10		0.16	0.56		< 0.0050	61	1300	4300	< 100	0.18		19.6	< 0.025	1.5		5.8	0.0084	97	0.22	< 0.00020			0.16	< 0.050		-60.0	7.61					1300		1700	6.6	27.2		10000	360	19		37.4	0.045	< 0.020
5/20/2016		6100	0.18		0.20	0.69	77	< 0.0050	74	1200	4300	< 100	0.20		19806	< 0.025	3.8		6.0	0.0058	130	0.24	< 0.00020			0.20	< 0.050		89.8	7.64		< 50			1500	< 0.015	2100	11	28.5	< 0.010	8500	420	< 4.0		47.0	0.054	< 0.020
8/24/2016		5500	0.12		0.18	0.61		< 0.0050	64	1400	3900	< 100	0.17		22198	< 0.025	2.3		5.7	< 0.0050	110	0.21	< 0.00020			0.18	< 0.050		-2.4	7.42					1300		2000	< 1.5	29.9		8700	440	5.2		12.8	0.046	< 0.020
11/15/2016		6000	0.14		0.20	0.67		< 0.0050	65	1300	4400	< 100	0.18		21846	< 0.025	2.2		6.2	0.0069	120	0.22	< 0.00020			0.19	< 0.050		16.7	7.55					1300		2100	< 5.0	19.2		8500	420	16		7.5	0.048	< 0.020
6/9/2017		6500	0.20		0.20	0.78	86	< 0.0050	66	1100	5000	< 100	0.21			< 0.025	1.7		4.7	0.0060	110	0.19	< 0.00020			0.21	< 0.050		110.2	7.65		< 250			1400	< 0.015	2500	< 5.0	23.1	< 0.020	10000	320	< 4.0		3.7	0.054	< 0.020
8/31/2017		7100	0.17		0.19	0.75		< 0.0050	63	1400	4900	< 100	0.23			< 0.025	2.5		4.5	< 0.0050	110	0.18	< 0.00020			0.20	0.050		10.0	7.69					1500		2300	< 5.0	26.4		11000	440	4.4		7.5	0.053	< 0.020
11/16/2017		8200	< 2.5		0.21	0.75		< 0.0050	61	1400	4300	< 200	0.41			0.079	3.3		2.4	0.015	110	0.35	< 0.00020			0.21	< 0.050		-64.0	7.70					2100		2400	< 5.0	18.4		12000	580	< 4.0	17.9		0.052	0.052
5/9/2018		7400	0.23		0.22	0.73	140	< 0.0050	61	2600	4300	< 40	0.35			< 0.025	2.0		3.4	< 0.0050	110	0.31	< 0.00020			0.20	< 0.050		69.7	7.56		< 250			1600	< 0.015	2000	< 5.0	27.5	< 0.020	10000	490	< 4.0	15.9		0.051	0.033
8/30/2018		7900	< 0.25		0.19	0.74		< 0.0050	57	1400	3500	< 40	0.34			< 0.025	2.8		3.6	< 0.0050	96	0.25	< 0.00020			0.19	< 0.050		93.1	7.57					2000		2400	< 5.0	26.5		11000	490	4.0	12.8		0.046	0.027
11/27/2018		5700	< 2.5		0.25	0.77		< 0.0050	60	470	4300	< 40	0.34			< 0.025	5.3		4.0	0.0099	110	0.30	< 0.00040			0.21	< 0.050		-24.3	7.73					1900		2300	< 5.0	18.2		9000	440	40	7.4		0.054	0.025
6/12/2019		7800	0.14		0.22	0.61	220	< 0.0050	55	2000	3800	< 40	0.28			< 0.025	1.6		4.1	< 0.0050	97	0.24	< 0.00020			0.18	< 0.050		91.9	7.79		< 250			1500	< 0.015	2000	< 5.0	27.5	< 0.020	12000	510	19	8.3		0.044	< 0.020
8/28/2019		6600	< 0.25		0.21	0.67		< 0.0050	54	1900	4200	< 40	0.25			< 0.025	3.1		4.3	< 0.0050	97	0.22	< 0.00020			0.20	< 0.050		-12.8	7.59					1500		2200	< 5.0	27.2		9000	370	20	5.5		0.048	< 0.020
11/25/2019		6400	< 0.25		0.20	0.65		< 0.0050	58	1600	4200	< 40	0.25			< 0.025	1.6		4.4	< 0.0050	98	0.38	< 0.00020			0.18	< 0.050		-110.3	7.66					1400		2100	< 5.0	21.4		7500	470	20	3.4		0.044	< 0.020

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
8CLC																																																
8/31/2006		315		9.8	0.019	0.19		< 0.005	120	131	156	< 5	< 0.01		1250	< 0.02			19.5	< 0.005	17.6	12.7			< 0.0002	0.081									35.8		51.1	35.3	20.6		689	51.4	< 4	20		< 0.02	0.14
12/15/2006		1900		259	0.1	1.2		< 0.005	471	75.9	2550	< 5	0.058			< 0.025			30.1	0.0055	160	19.4			< 0.2	0.072									452		1010	8.9	17		7860	768	< 4	78.3		0.052	0.032
5/17/2007		1550	0.3	260	0.058	0.59	860	< 0.005	300	1600	1900	< 5	0.044		7915	0.032			14.6	0.011	131	13.1			< 0.2	0.046			-18			6.47	230		362	< 0.015	613	6.7	14.9	< 0.01	4720	515	67		35.2	< 0.025	0.12
8/16/2007		2530		644	0.092	1.3		< 0.005	282	1280	4410	< 5	0.085		14884	< 0.025			10.7	0.0059	232	4.5			< 0.2	0.098			-30			6.37			819		1380	5.4	23.5		6920	342	40.4		253	0.038	0.066
12/14/2007		3860		1930	0.25	1.8		< 0.005	194	3460	837	< 5	0.26		28990	0.04			5.4	0.013	346	2.8			< 0.2	0.18			-78			7.11			2120		3070	4	17.1		19000	599	30.4		80.6	0.079	0.11
5/21/2008		3130	0.13	469	0.14	1.1		< 0.005	225	1580	5010	< 5	0.14		18730	< 0.025			13.2	0.0061	197	3.4			< 0.2	0.1			22			7	< 10	< 0.015	1150	< 0.015	1840	1	23.2	< 0.01	9960	190	61.2		73.6	0.034	0.037
8/19/2008		1300		642	0.1	0.65		< 0.005	193	1470	1940	< 5	0.098			< 0.025			6.4	< 0.005	153	2.3			< 0.2	0.085						7.42			820		1280	108			6370	220	< 4			< 0.025	0.034
12/11/2008		1270		338	0.043	0.54		< 0.005	240	397	1740	< 5	0.014			< 0.025			19.4	< 0.005	109	2.4			< 0.2	< 0.04									388		614	92.5			3620	70	36.8			< 0.025	< 0.02
5/14/2009		1710	0.069	406	0.0454	0.430	36	< 0.0050	84.1	802	2110	< 10	0.0567		10080	< 0.0250	6		4.95	< 0.0050	70.8	1.67	< 0.0002			0.0478	1.48		-48.7	7.13			< 25		498	< 0.0150	823	1.86	17.1	< 0.0100	3970	157	< 4.0		23.7	< 0.0250	< 0.0200
9/8/2009		1940		384	0.0673	0.470		< 0.0050	85.0	948	2900	< 10	0.0646		13500	< 0.0250	3.6		3.63	< 0.0050	84.5	1.63	< 0.0002			0.0744	0.155			7.18					664		1110	< 1.49	23.3		5340	147	< 4.0		38.3	< 0.0250	< 0.0200
11/12/2009		1290		490	0.0483	0.392		< 0.0050	83.0	855	2350	< 10	0.0517		10200	< 0.0250	4.4		4.58	< 0.0050	73.1	1.59	< 0.0002			0.0498	0.249		98.6	7.27					520		915	4.04	17.4		4060	148	< 4.0		29.9	< 0.0250	< 0.0200
5/10/2010		2930	0.107	193	0.149	0.485	53	< 0.0050	94.2	940	3200	< 10	0.0927		17370	< 0.0250	4.6		11.5	< 0.0050	92.2	1.47	< 0.0002			0.0811	0.872		43.4	7.24			< 10		747	< 0.0150	1220	< 1.49	14	< 0.0102	5630	194	< 4.0		45.1	0.0256	0.0364
8/12/2010		2650		630	0.0610	0.456		< 0.0050	74.4	1030	2890	< 10	0.0894		14130	< 0.0250	2.7		1.79	< 0.0050	83.0	1.01	< 0.0002			0.0763	1.49		99	7.36					852		1290	< 1.49	24.9		5810	240	< 4.0		66.1	0.0266	0.0377
11/8/2010		1190		131	0.0284	0.0886		< 0.0050	38.2	174	652	< 10	0.0224		3585	< 0.0250	6.9		1.34	< 0.0050	22.5	0.372	< 0.0002			< 0.0400	0.472		-9.2	5.69					227		273	117	13.7		1380	54.8	< 4.0		12.7	< 0.0250	0.0483
5/10/2011		2810	0.10	683	0.14	0.29	63	< 0.0050	94.7	736	1890	< 50	0.099		11760	0.041	4.7		12.4	< 0.0050	79.2	1.3	< 0.00020			0.087	1.2		42	7.45			< 10		741	< 0.015	927	4.1	18.5	< 0.010	4500	194	8.8		59.2	< 0.025	0.12
8/11/2011		3130			0.16	0.45		< 0.0050	88.8	1170	2720	< 25	0.13		17050	0.042	3.6		14.9	< 0.0050	90.1	1.4	< 0.00020			0.096	< 0.050		50.7	7.30					921		1190	< 1.5	23.8		5240	218	61.6		93.1	< 0.025	0.13
11/10/2011		3140			0.097	0.49		< 0.0050	86.9	1510	3270	< 50	0.12		17480	0.063	5.1		11.1	< 0.0050	97.6	1.4	< 0.00020			0.12	< 0.050		141.0	7.57					868		1300	6.5	20.8		5540	227	< 4.0		32.0	0.025	0.17
5/11/2012		1780	0.15		0.081	0.26	100	0.0015	109	622	944	< 50	0.076		7056	0.21	4.6		18.2	0.014	54.9	5.5	< 0.00020			0.088	< 0.050		-109.3	7.22			30		455	< 0.015	529	202	15.0	< 0.010	3300	186	60.0		61.4	0.015	0.17
8/17/2012		3190	0.14		0.14	0.40		< 0.0050	87.2	785	1800	< 50	0.11		11049	0.052	5.8		7.9	0.0084	88.7	2.2	< 0.00020			0.13	1.2		3.0	7.70					890		1080	< 1.5	23.2		5240	239	15.2		206.0	0.036	0.067
11/13/2012		3340	0.16		0.12	0.49		< 0.0050	106	1100	1750	< 50	0.16		11187	0.049	6.2		5.4	0.0099	87.4	1.6	< 0.00020			0.18	0.24		182.3	7.69					1050		1050	2.5	15.1		4650	286	< 4.0		40.8	0.043	0.067
4/9/2013		1930	0.11	237	0.066	0.17	39	0.00050	59.0	721	1110	< 50	0.14		7250	0.12	5.6		3.8	0.0082	42.3	1.3	< 0.00020			0.13	1.8		66.2	7.69			< 9.6		673	< 0.015	645	6.8	11.6	< 0.010	3360	198	< 4.0		34.5	0.020	0.21
8/13/2013		4230	0.26		0.19	0.44		0.0021	94.2	1070	1870	< 50	0.29		12041	0.15	0.1		3.9	0.025	94	1.1	< 0.0002			0.19	< 0.05		-145.2	7.73					1510		982	< 1.5	22		5880	345	14.8		36.8	0.054	0.13
11/12/2013		5430	0.23		0.18	0.30		0.0010	78.7	1590	2980	< 50	0.39		16749	0.16	6.7		8.1	0.0092	107	0.89	< 0.00020			0.27	1.5		14.0	8.09					1830		1820	3.1	14.8		7990	478	5.6		19.5	0.061	0.30
5/15/2014		4610	0.21		0.16	0.23	63	0.0017	105	1370	2440	< 50	0.22		14700	0.14	1.7		9.3	0.0092	93.1	1.3	< 0.00020			0.17	0.090		-60.0	7.31			3.8		1130	< 0.015	1120	< 1.5	18.4	< 0.010	6340	361	7.6		34.9	0.029	0.27
11/5/2014		5370	0.22		0.19	0.38		< 0.0050	121	1210	2010	< 100	0.39		14800	0.060	4.9		4.3	0.024	103	1.3	< 0.00020			0.23	< 0.050		54.0	7.70					1320		1390	< 1.5	20.4		7250	380	< 4.0		141.0	0.073	0.072
4/30/2015		4750	0.21		0.18	0.28	76	< 0.0050	122	1090	1920		0.38		12500	0.066	1.9		8.4	0.0045	91.6	1.1	< 0.00020			0.18	3.9		44.0	8.28			< 48		1270	< 0.015	1160	5.8	21.7	< 0.010	6710	330	12.0		33.2	0.053	0.093
5/11/2015												< 100																																				
8/28/2015		3480	0.25		0.10	0.48		0.0011	87.1	990	1300	< 100	0.38		10700	0.029	1.8		7.5	< 0.0050	67.3	1.4	< 0.00020			0.17	< 0.050		155.0	7.19					1020		969	17.6	25.3		4150	212	4.8		18.5	0.050	0.049
11/19/2015		6000	0.37		0.13	0.59		< 0.0050	100	1400	2100	< 100	0.51		14.7	< 0.025	0.4		5.3	0.016	81	3.6	< 0.00020			0.20	< 0.050		-142.0	7.75					1500		1200	2.6	18.9		8300	310	7.2		17.3	0.076	0.047
5/20/2016		7800	0.49		0.23	0.56	220	< 0.0050	100	1400	2200	< 100	0.64		16967	< 0.025	1.1		4.3	0.014	99	1.5	< 0.00020			0.21	< 0.050		80.4	7.44			< 130		1800	< 0.015	1400	2.4	27.4	< 0.010	7700	530	30		21.2	0.096	0.055
8/24/2016		4900	0.49		0.27	0.44		< 0.0050	78	980	1500	< 100	0.48		14379	0.027	2.1		4.5	0.0090	73	1.0	< 0.00020			0.18	< 0.050		-30.5	7.37					1400		1100	< 1.5	28.1		5900	350	24		68.0	0.071	0.076
11/15/2016		7300	0.60		0.21	0.43		< 0.0050	80	1900	2000	< 100	0.67		17816	0.033	0.4		2.2	0.019	78	0.83	< 0.00020			0.24	< 0.050		19.6	7.67					1400		1200	< 5.0	19.4		8500	600	20		121.0	0.078	0.084
6/9/2017		6600	0.62		0.18	0.42	100	< 0.0050	98	1100	1900	< 100	0.59			0.032	2.9		1.6	0.016	74	1.2	< 0.00020			0.21	< 0.050		160.9	7.72			< 250		1500	< 0.015	1300	< 5.0	23.4	< 0.020	7600	390	4.8		71.5	0.063	0.070
8/31/2017		8200	0.87		0.21	0.45		< 0.0050	92	2000	2100	< 100	0.74			0.029	3.7		3.5	0.016	83	2.3	< 0.00020			0.24	< 0.050		30.5	7.75					1600		1400	< 5.0	28.8		8700	580	8.0		40.9	0.084	0.089
11/16/2017		8700	< 2.5		0.24	0.50		< 0.0050	88	1700	1800	< 200	0.84			0.052	2.7		3.8	0.024	86	1.1	< 0.00020			0.27	< 0.050		-47.2	7.66					1900		1700	< 5.0	20.0		10000	690	10	26.7		0.091	0.093
5/9/2018		7800	0.86		0.28	0.44	77	< 0.0050	110	4700	2000	< 40	0.81			0.046	0.4		2.2	0.014	89	1.2	< 0.00020			0.20	< 0.050		45.1	7.54			< 250		1400	< 0.015	1300	6.9	27.1	< 0.020	7500	740	40	70.3		0.090	0.11
8/30/2018		7400	0.50		0.35	0.49		< 0.0050	96	1900	1900	< 40	0.77			0.048	1.4		3.5	0.010	80	1.0	< 0.00020			0.21	< 0.050		120.8	7.48					1700		1500	< 5.0	27.0		8400	570	< 4.0	34.7		0.085	0.074
11/27/2018		4500	< 2.5		0.25	0.48		< 0.0050	96	610	2000	< 80	0.75			0.042	4.7		2.8	0.020	79	1.0	< 0.00040			0.22	< 0.050		-0.8	7.71					1600		1400	< 5.0	18.1		6700	600	110	22.1		0.087	0.089
6/12/2019		9200	0.84		0.23	0.49	260	< 0.0050	110	2200	2000	< 80	0.72			0.033	3.2		3.1	0.014	92	1.0	< 0.00020			0.20	< 0.050		28.5	7.81			< 250		1400	< 0.015	1300	< 5.0	26.9	< 0.020	9000	640	20	35.5		0.078	0.084
8/28/2019		5000	0.46		0.19	0.38		< 0.0050	97	1800	1700	< 80	0.47			< 0.025	2.5		1.9	0.0075	73	0.93	< 0.00020			0.15	< 0.050		7.8	7.55					1000		1100	< 5.0	27.3		5700	380	14	38.1		0.058	0.054
11/25/2019		7400	0.80		0.23	0.48		< 0.0050	140	2400	2100	< 80	0.72			0.028	0.8		14	0.013	91	4.2	< 0.00020			0.21	< 0.050		-127.7	7.54					1400		1400	18	19.1		7000	680	18	12.5		0.078	0.071
9ABCLC																																															
5/17/2007		2900	< 0.2	1610	0.17	1.4	44		233	1520	6340	< 6.7	0.036		24540	< 0.025			32.2	< 0.005	279	2.4			< 0.2	0.12		-77			7.04	< 10		1450		2440	32.7	17		11400	152	84		216	0.033	< 0.02
5/21/2008		3760	< 0.2	955	0.21	1.7			181	1580	7740	< 6.7	0.049		28290	< 0.025			13.4	< 0.005	282	0.95			< 0.2	0.15		0.3			7.09	< 10		1880		2900	1	21.6		13600	120	34.8		147	0.038	< 0.02
5/14/2009		3240	< 0.200	1190	0.242	1.63	50		180	1880	8830	< 20	0.0492		30040	< 0.0250	3.2		12.6	< 0.0050	273	0.957	< 0.0002			0.133	< 0.050		-11.9	6.90			< 10		1640		2800	1.73	20.6		11300	145	39.6			0.0344	< 0.0200
5/10/2010		4190	0.112	11100	0.225	1.56	54		132	2020	9060	< 20	0.0556		39770	< 0.0250	4.1		12.7	< 0.0050	243	0.697	< 0.0002			0.166	< 0.050		24.1	7.13			< 10		1770		3050	< 1.49	14.4		15700	165	32.4		83.6	0.0357	< 0.0200
5/10/2011		3930	< 0.060	1700	0.32	1.8	50		136	2060	7480	< 100	0.062		35930	< 0.025	3.5		11.4	< 0.0050	285	0.63	< 0.00020			0.16	< 0.050		-18	7.42			< 48		1990		3400	1.9	18.6		15300	149	32.0		78.9	0.049	< 0.020
5/11/2012		2450	< 0.060		0.35	2.0	58		161	2390	8700	< 100	0.055		34464	0.0039	2.5		16.5	< 0.0050	260	0.54	< 0.00020			0.20	< 0.050		-87.8	7.38			< 47		1990		3650	21.8	18.1		16400	186	49.2		193.0	0.036	0.0049
4/9/2013		4150	< 0.060	1300	0.22	1.6	52		119	1780	11100	< 100	0.044		32986	< 0.025	4.6		6.6	< 0.0050	216	0.35	< 0.00020			0.13	0.12		62.6	7.52			< 49		1790		3160	< 1.5	16.3		15000	230	16.8		53.8	0.037	0.0030
5/14/2014		4610	< 0.060		0.17	1.8	47		179	838	1760	< 100	0.036		29500	0.0064	5.5		8.0	< 0.0050	182	0.51	< 0.00020			0.14	0.023		24.0	7.26			< 47		2020		3180	< 1.5	20.1		15200	223	38.8		67.4	0.028	0.0016
5/1/2015		4450	< 0.060		0.27	1.2	23		107	705	8840		0.055		27700	0.0045	2.8		11.0	< 0.0050	191	0.61	< 0.00020			0.22	4.4		-23.0	7.28			< 45		1780		3520	< 1.5	22.2		15300	160	31.6		59.3	0.033	0.0046
5/12/2015												< 100																																				
5/20/2016		4900	< 0.060		0.34	1.4	140		92	670	9200	< 100	0.054		31505	< 0.025	2.6		8.4	0.0057	220	0.33	< 0.00020			0.21	< 0.050		80.1	7.51			< 54		2000		3800	3.7	23.5		15000	210	34		99.8	0.054	< 0.020
6/1/2017		5000	< 0.080		0.23	1.1	56		89	840	9400	< 50	0.063			< 0.025	1.8		7.3	< 0.0050	210	0.32	< 0.00020			0.22	0.18		-35.2	7.51			< 250		2000		3800	< 5.0	22.5		19000	190	78		56.6	0.063	< 0.020
5/9/2018		5400	< 0.080		0.27	1.3	210		74	1300	8300	< 10	0.066			< 0.025	2.9		7.0	< 0.0050	180	0.36	< 0.00020			0.22	0.80		82.8	7.39			< 250		1600		3200	< 5.0	23.1		15000	190	26	37.4		0.082	< 0.020
6/11/2019		4800	< 0.080		0.36	1.1	54		76	830	7300	< 10	0.099			< 0.025	3.2		7.8	0.0052	170	0.26	< 0.00020			0.23	0.15		28.5	7.74			< 250		1900		3500	< 5.0	20.3		13000	190	21	46.2		0.091	< 0.020
9ABCLD																																															
5/18/2007		785	< 0.2	9.3	0.015	0.057	2.3		77.7	< 10	79.3	< 5	< 0.01		1584	0.048			4	< 0.005	7.8	1.9			< 0.2	< 0.04		-64			7.19	< 10		26.2		246	56.9	13.8		836	3.5	110		7.2		0.092
5/21/2008		529	< 0.2	5.7	0.016	0.06			75.3	< 10	52.1	< 5	< 0.01		1524	0.18			2.5	0.019	7.5	2.7			< 0.2	< 0.04		6.6			8.12	< 10		18.1		173	45.1	17.5		709	4.9	6.8		19.3		0.64
5/21/2009		485	< 0.200	2.23	0.0186	0.0378	< 2.0		72.0	< 10.0	31.3	< 5.0	< 0.0100		948	0.132	7.4		2.26	0.0136	6.16	1.38	< 0.0002			< 0.0400	0.568		239	6.07			< 10		11.3		121	14.9	22.8		537	3.7	< 4.0				0.442
5/18/2010		547	< 0.045	0.872	0.0158	0.0818	< 2.0		85.7	< 10.0	47.2	< 5.0	< 0.0100		1183	0.127	5.2		4.67	0.0104	7.99	4.10	< 0.0002			< 0.0400	0.153		-111.8	6.92			< 10		11.2		153	39.3	20		654	3.5	11.7		13.3		0.157
5/9/2011		2120	0.086	847	0.092	0.78	23		108	971	3620	< 25	0.028		15700	0.11	4.3		5.8	0.021	90.0	3.6	< 0.00020			0.070	< 0.050		-5	7.40			< 9.5		889		1610	2.9	20.5		7610	74.8	4.0		43.3		0.14
5/10/2012		781	0.11		0.030	0.068	< 6.0		88.3	9.7	34.8	< 5.0	0.0011		1402	0.0061	5.0		11.7	< 0.0050	8.9	4.1	< 0.00020			0.0028	< 0.050		-107.9	6.90			< 9.5		11.1		199	154	18.7		760	2.8	22.8		41.5		0.0096
4/12/2013		552	< 0.060	0.74	0.012	0.062	< 2.0		88.5	8.9	123	< 5.0	0.0014		1553	0.047	6.2		4.4	0.0087	10.3	2.3	< 0.00020			0.010	0.076		-95.6	7.19			< 9.5		18.0		241	102	13.3		968	4.3	9.6		9.9		0.058
5/14/2014		539	< 0.060		0.020	0.057	2.3		70.5	19.5	111	< 5.0	0.018		18100	0.037	3.7		4.8	0.0041	8.1	2.8	< 0.00020			0.015	0.079		-85.0	7.31			< 9.5		13.1		186	97.8	19.2		773	4.6	10.4		53.5		0.021
5/11/2015		432	< 0.060		0.0096	0.057	< 2.0		93.5	6.6	75.2	< 5.0	0.0081		995	0.024	3.7		2.9	0.0032	8.4	2.0	< 0.00020			0.016	0.28		59.0	7.39			< 9.2		12.8		167	133	20.9		681	7.2	5.2		13.9		0.026
5/19/2016		480	< 0.060		0.020	0.11	< 2.0		120	13	150	< 5.0	< 0.010		1658	0.24	4.3		1.8	0.016	12	0.18	< 0.00020			< 0.040	1.1		152.8	7.18			< 10		32		200	210	22.9		890	5.8	4.8		19.5		0.19
6/2/2017		1900	< 0.080		0.043	0.23	6.9		110	230	2500	< 5.0	0.019			2.4	9.7		0.81	0.027	52	0.15	< 0.00020			0.085	8.4		7.1	7.66			< 100		610		1300	180	17.3		4200	50	5.6		9.4		3.1
5/10/2018		510	< 0.080		< 0.0090	0.073	< 2.0		140	13	91	< 1.0	0.066			0.13	5.9		1.3	0.012	13	0.15	< 0.00020			0.049	16		27.8	6.95			< 100		19		200	250	19.8		1000	2.7	5.6	13.1			0.25
6/12/2019		450	< 0.080		< 0.0090	0.092	5.9		110	48	320	< 1.0	< 0.010			0.068	4.9		0.30	0.014	14	0.57	< 0.00020			0.046	23		88.6	7.34			< 100		63		320	190	24.8		1500	6.4	< 4.0	3.6			0.20
9ALC																																															
12/10/2001			0.037						698	551				92000	1180				14.7	0.0063	102	72.5												99.9	< 0.015	388		9.7	< 0.01	3740	140	< 3				
5/9/2002	2110	2110		381	0.062	3.2		< 0.005	928	1590	4210	< 5	0.013	< 4	17506	< 0.025			112	0.022	340	35			< 0.2	< 0.04					6.8	240		752	< 0.015	1280	2	18.7		8950	431	171			< 0.025	< 0.02
8/13/2002									1180	1130				5800					119	0.01	397	10									6.59			1380	< 0.015	2140				10900	135	272		72.1		
12/9/2002									792	1150				3500	24403				39.6	< 0.005	497	5.4									6.6			1170	< 0.015	1760		12.4		13100	141	256		77.6		
4/30/2003		1800	0.04	841	0.1	2.1		< 0.005	612	1300	7480	< 5	< 0.01	2800	21668	< 0.025			21.8	< 0.005	537	7.8			< 0.2	0.087		144			6.59	< 43		1600	< 0.015	2110	720	<	< 0.01	15400	110	250		< 0	< 0.025	< 0.02
8/11/2003									691	1610				< 10	9080				71.4	< 0.005	572	5.6									6.78			1820	< 0.

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
9ALD																																																
8/23/2001		139		< 0.02	0.017	0.028		< 0.005	55	63.8	2.6	< 5	< 0.01		509	< 0.025			0.81	< 0.005	4.3	2.6			< 0.2	< 0.04							7.45	< 10		10.3		107	120	20.2		534	18.1	8			< 0.025	< 0.02
12/4/2001			0.078		< 0.005	0.037		< 0.005	57.1	< 10			< 0.01		1035	< 0.025			0.14	< 0.005	4.2	0.019				< 0.04							6.97			9.8	< 0.01	166		11.9	< 0.01	674	5.5	< 3			< 0.025	< 0.02
5/9/2002	275	275		< 0.02	< 0.005	0.049		< 0.005	79.8	14.6	12.8	< 5	< 0.01		944	< 0.025			0.094	< 0.005	5.7	< 0.01			< 0.2	< 0.04							7.28	< 10		10.7		98.2	146	17		617	1.7	< 3			< 0.025	< 0.02
8/12/2002									89.9	< 10									0.13	< 0.005	6.7	< 0.01											7.01			15.2		166				656	4.6	< 3		0.15		
12/10/2002									146	< 10					1047				0.33	< 0.005	9.8	0.44											6.58			12.7		111		10.3		704	3.2	< 3		1.1		
4/29/2003		298		< 0.02	< 0.005	0.05		< 0.005	107	< 10	2.4	< 5	< 0.01		750	< 0.025			0.27	< 0.005	5.3	0.26			< 0.2	< 0.04			-53				6.6	< 10		9.2		60.5	54.5	19.8		492	2.4	< 3		8.8	< 0.025	< 0.02
8/12/2003									110	< 10					657				0.22	< 0.005	3.7	0.15											6.71			8.8		63.5		22.9		475	< 1	14		4.1		
12/19/2003									53.2	< 10					312				0.52	< 0.005	2	0.91											6.56			5.1		14.4		14.5		188	3.9	19		224		
5/13/2004	391	391	< 0.2	0.12	0.022	0.064	< 6	< 0.005	112	< 10	0.83	< 5	< 0.01		843	< 0.025			8.6	< 0.005	4.5	4	< 0.0002		< 0.2	< 0.04			-76				6.69	< 10		11.4		71.3	6.2	22.7		509	< 1	19		10.5	< 0.025	< 0.02
8/11/2004	398	398		0.16	< 0.01				76.7	10.5	1.6				654				3.8	< 0.005	3	2.1											6.68			5.6		63.8	29.1	22.8		371	1.7	4		13.1		
12/3/2004	261	261		0.24	0.011				89.9	< 10	2.5				760				4.5	< 0.005	3.4	2.4											6.84			6		70.3	30.9	18.6		408	1.1	3		4.5		
5/18/2005		266	< 0.2	0.12	0.011	0.036	< 2	< 0.005	95.8	< 10	1.6	< 5	< 0.01		1411	< 0.025			4.9	< 0.005	2.5	2.1			< 0.2	< 0.04			-57.2				6.74	< 10		4.2		23.4	2.9	22.9		329	1.4	3		69.9	< 0.025	< 0.02
8/18/2005		289		0.34	0.031				85.9	< 10	2.7				670				13.7	< 0.005	3	12.2											5.66			4.5		29.7	2	24.4		406	2.6	16		6.5		
12/22/2005		195		1.1	0.031				66.6	21.7	1.7				622				13.8	< 0.005	2.7	7.4											7.22			3.9		24.5	< 1	16.3		273	1.2	24		7.7		
5/12/2006							< 2																																								
5/12/2006		256	< 0.2	0.22	< 0.005	0.05			87.2	< 10	1.6	< 5	< 0.01		699	< 0.025			1.1	< 0.005	2.8	2.5			< 0.2	< 0.04			3				6.54	< 10		3.9		30.7	2.6	14.7		328	< 1	< 4		8.1		< 0.02
9BLC																																															
12/10/2001			0.042						21.5	10.2				400	232				< 0.035	< 0.005	2.4	0.018											7.95			3.5	< 0.015	5.7		8.5	< 0.01	72	4.8	< 3				
5/9/2002	1700	1700		166	0.02	0.8		< 0.005	1560	2940	4240	< 5	0.015	72000	15940	< 0.025			52.1	0.064	118	133			< 0.2	0.28							6.45	530		658	< 0.015	966	508	11.4		10800	36.8	46			< 0.025	< 0.02
8/13/2002									2370	8410				40					318	0.071	250	133											6.25			1260	< 0.015	1740				12800	43.2	256		17.3		
12/9/2002									1160	5040				42000	25017				146	0.023	422	31.8											6.64			1420	< 0.015	1700		8.9		14100	1990	384		47.6		
4/30/2003		2460	0.078	1130	0.12	2.2		< 0.005	785	1900	8450	< 5.3	0.037	27000	24149	< 0.025			14.9	< 0.005	396	6.5			< 0.2	0.078			147				6.72	1000		1880	< 0.015	2260	99	<	< 0.01	15000	546	270		< 0	< 0.025	0.025
8/11/2003									706	1680				100	8580				10.5	< 0.005	356	4.8											6.65			1860	< 0.015	2280		27.3		14100	276	44		68.6		
12/16/2003									574	2140				7000	30508				21.9	< 0.005	372	4.2											6.89			2570	< 0.015	2680		16.6		17300	120	68		64		
5/14/2004	40.3	40.3	< 0.2	1410	0.11	1.7	400	< 0.005	378	2300	9310	< 5	0.072		28879	< 0.025			7.5	< 0.005	330	2.9	< 0.0002		< 0.2	0.088			-98				7	340		1830		2400	< 1	21.7		13700	86.8	10		132	< 0.025	< 0.02
8/12/2004	2830	2830		1660	0.31				257	2410	8990				28720				16	< 0.005	328	2											6.9			1940		2470	4.8	23.4		12800	82.8	23		23.5		
12/6/2004	146	146		865	0.18				141	1190	5640				20500				14.7	< 0.005	137	0.82											7.36			874		1160	2.1	17.3		9750	88.9	89		3.4		
5/18/2005							300																																								
5/18/2005		2760	< 0.2	704	0.33	0.69		< 0.005	263	1180	4330	< 5	0.029		17850	< 0.025			3	< 0.005	307	1.7			< 0.2	0.066			-256.9				6.97	< 10		1150		1480	197	17.9		8410	73.9	4		21.9	0.026	< 0.02
8/17/2005		3560		966	0.14				199	1390	7480				23596				3.8	< 0.005	314	1.7											5.89			1500		2120	82.4	23.1		12600	59.8	15		5.7		
12/22/2005		3240		875	0.17				235	651	7070				19647				4.3	< 0.005	380	1.2											6.95			1500		2080	1.5	15.3		12100	92	9		15.5		
5/11/2006		3260	< 0.2	1260	0.22	1.4	28	< 0.005	185	1690	9210	< 5	0.048		26640	< 0.025			6.8	< 0.005	382	0.87			< 0.2	0.18			-72				7			1960		2740	1.6	19.7		13400	84.8	18		14.5	0.083	< 0.02
9BLD																																															
8/8/2001		142		< 0.02	< 0.005	0.013		< 0.005	37.4	< 10	3.1	< 5	< 0.01		251	< 0.025			0.38	< 0.005	9.7	0.26			< 0.2	< 0.04							7.38	< 10		7.3	< 0.015	12.3	19.6	26		194	3.4	94			< 0.025	0.024
10/31/2001		122	0.12	< 0.02	< 0.005	0.019		< 0.005	49.7	< 10	2.5	< 5	< 0.01		393	< 0.025			0.14	< 0.005	4.2	0.27			< 0.2	< 0.04							7.26	< 10		8.5	< 0.01	78.8	190	12.6	< 0.01	382	2.6	< 3			< 0.025	< 0.02
5/9/2002	158	158		< 0.02	< 0.005	0.037		< 0.005	65	< 10	6.5	< 5	< 0.01		1111	< 0.025			0.038	< 0.005	6.2	< 0.01			< 0.2	< 0.04							8.03	< 10		9.7		118	290	11.9		638	1.4	< 3			< 0.025	< 0.02
8/12/2002									80.2	< 10									0.17	< 0.005	7.4	< 0.01											7.41			12		148				676	1.2	< 3		< 0		
12/10/2002									112	< 10					973				0.12	< 0.005	9.7	< 0.01											7.02			11.7		126		8		700	1.2	< 3		< 0		
4/29/2003		323		0.34	< 0.005	0.064		< 0.005	118	< 10	57.5	< 5	< 0.01		1185	< 0.025			0.19	< 0.005	11.3	0.17			< 0.2	< 0.04			-5				7.04	< 10		18.6		150	188	16.7		804	2.1	< 3		< 0	< 0.025	< 0.02
8/12/2003									121	< 10					1156				0.3	< 0.005	11	0.022											7.08			15.1		143		19.7		785	1.5	< 3		2.5		
12/19/2003									121	50.7					783				9.6	0.0072	8.9	12.8											6.93			12.6		70.2		12.9		584	18.9	19		7.3		
5/13/2004	372	372	< 0.2	0.044	< 0.005	0.059	< 2	< 0.005	111	< 10	20.7	< 5	< 0.01		938	< 0.025			1.5	< 0.005	9	0.4	< 0.0002		< 0.2	< 0.04			-21				7.04	< 10		12.1		79.2	73.8	23.6		572	< 1	10		14.4	< 0.025	< 0.02
8/11/2004	233	233		0.064	< 0.01				123	< 10	15.2				872				0.41	< 0.005	9	0.15											6.83			12.5		64.9	153	20		550	1.8	8		3.9		
12/3/2004	402	402		0.19	< 0.01				127	< 10	19				920				0.11	< 0.005	8.9	0.022											7.2			13.3		59	73.4	16		549	< 1	< 3		8.1		
5/18/2005		366	< 0.2	< 0.02	< 0.005	0.02	< 2	< 0.005	65.6	< 10	5.8	< 5	< 0.01		1154	< 0.025			0.052	< 0.005	4.4	< 0.01			< 0.2	< 0.04			-41.4				7.32	< 10		7.5		91.1	48.2	11		451	1.4	< 3		3.4	< 0.025	< 0.02
8/18/2005		371		0.13	< 0.01				141	< 10	20.4				861				0.042	< 0.005	7.8	0.056											5.73			11.7		40.5	48.3	20.3		554	1.7	< 3		2.9		
12/22/2005		259		0.074	< 0.01				110	< 10	18.6				1507				< 0.03	< 0.005	5	0.014											7.18			7.8		17.6	22.9	15		390	< 1	6		2		
5/12/2006							< 2																																								
5/12/2006		288	< 0.2	< 0.02	< 0.005	0.048			119	30.2	4.2	< 5	< 0.01		796	< 0.025			0.034	< 0.005	5.9	< 0.01			< 0.2	< 0.04			40				6.78	< 10		8.5		28.3	39.2	17.1		486	< 1	< 4		1.6		< 0.02
9CLC																																															
5/9/2002	1660	1660		248	0.013	0.69		< 0.005	760	1990	3650	< 5	0.018	54000	12042	< 0.025			56.4	0.038	81	61.5			< 0.2	0.14							6.7	740		628	< 0.015	750	329	9.5		6900	776	89			< 0.025	0.026
8/14/2002									1250	5950				19000	21629				297	0.049	213	81.5											5.97			1210	< 0.015	1800		18.5		12800	2300	14		13.7		
12/9/2002									1060	5500				130000	29178				104	0.017	409	20.2											6.71			1780	< 0.015	1940		8.2		13100	2870	456		74.2		
4/30/2003		1310	0.061	769	0.06	8.2		< 0.005	4930	3530	20800	< 5.3	0.016	720000	47507	< 0.025			90.7	0.018	188	34.6			< 0.2	< 0.04			86				6.01	95		3320	< 0.015	6140	60.5	<	0.024	40400	841	560		< 0	< 0.025	< 0.02
8/11/2003									435	992				160	6680				14	< 0.005	189	4.5											6.97			992	< 0.015	1140		21.1		7660	245	24		286		
12/16/2003									244	478				18000	4853				4.7	< 0.005	97	8.5											7.23			328	< 0.015	494		9.6		3320	80.9	< 3		21.4		
5/14/2004	2270	2270	< 0.2	281	0.022	0.66	1000	< 0.005	700	412	2490	< 5	0.062		9660	< 0.025			7.5	0.0086	234	73	< 0.0002		< 0.2	< 0.04			-15.3				6.79	940		289		704	< 1	13.5		6600	54.8	7		34.3	< 0.025	< 0.02
8/12/2004	756	756		200	0.029				474	960	1630				7978				95.4	< 0.005	166	31.9											6.74			322		621	26.3	16.4		4240	302	34		54.6		
12/6/2004	940	940		312	0.029				1000	4530	4190				15500				77.2	0.011	229	49.3											6.81			402		811	92.8	6.7		11200	1020	185		14		
5/18/2005							< 600																																								
5/18/2005		2730	< 0.2	796	0.09	1.7		< 0.005	425	1600	9530	< 5	0.043		28510	< 0.025			17.9	< 0.005	465	6.5			< 0.2	0.065			-110.6				6.76	120		1390		1950	14.7	13.8		15200	245	14		103	< 0.025	< 0.02
8/17/2005		3350		958	0.063				291	1920	9540				28184				20	< 0.005	513	2.8											5.73			1750		2700	216	16.9		16000	196	129		50.4		
12/22/2005		2220		614	0.13				347	1060	6480				17911				52	< 0.005	407	5.5											7.57			1140		1920	90.9	7.1		10700	141	135		18.5		
5/11/2006		2330	< 0.2	539	0.13	1.7	37	< 0.005	404	766	6160	< 5	0.028		17820	< 0.025			73.7	< 0.005	347	5.1			< 0.2	0.09			-92				6.6	< 10		1040		1830	16.5	13.2		8920	119	193		62.9	< 0.025	< 0.02
9CLD																																															
8/12/2002									1110	134					22204				196	0.03	234	37.8											6.8			1520		1600		25.5		12800	819	409		690		
8/14/2002									27.8	< 10					275				0.43	< 0.005	2.8	0.028											6.58			4.4		18.9		19.5		153	< 1	< 3		6.1		
12/10/2002									96.4	23					745				0.13	< 0.005	7.6	< 0.01											7.41			13.5		79.6		7.2		500	< 10	< 3		< 0		
4/29/2003		202		0.73	< 0.005	0.045		< 0.005	79.3	16.3	35.5	< 5	< 0.01		865	< 0.025			0.066	< 0.005	6.4	0.048			< 0.2	< 0.04			-53				7.18	< 10		15.4		110	182	18.3		594	1.6	< 3		0.7	< 0.025	< 0.02
8/12/2003									117	< 10					1121				0.28	< 0.005	8.7	0.14											7.17			19.2		135		22.1		776	1	8		7.6		
5/13/2004	374	374	< 0.2	< 0.02	< 0.005	0.055	< 2	< 0.005	81.8	19.7	214	< 5	0.026		3626	< 0.025			0.32	< 0.005	12	< 0.01	< 0.0002		< 0.2	< 0.04			160				8	< 10		33.6		738	1090	14		2240	3.9	6		10.3	< 0.025	< 0.02
8/11/2004	1060	1060		< 0.02	< 0.01				81.1	73.6	56.4				2748				0.99	< 0.005	12.2	0.13											7.02			22.1		600	1130	17.6		1780	5	7		24.5		
12/3/2004	244	245		< 0.02	< 0.01				48.1	< 10	17.2				1190				0.39	< 0.005	5.6	0.062											7.34			9.7		211	183	9		686	2	< 3		9.8		
5/18/2005		366	< 0.2	< 0.02	< 0.005	0.02	< 2	< 0.005	65.6	< 10	5.8	< 5	< 0.01		1154	< 0.025			0.052	< 0.005	4.4	< 0.01			< 0.2	< 0.04			-41.4				7.32	< 10		7.5		91.1	48.2	11		451	1.4	< 3		3.4	< 0.025	< 0.02
8/18/2005		591		0.048	< 0.01				98.6	< 10	15.1				1247				0.15	< 0.005	6.6	0.75											5.88			12.4		204	120	13.9		850	5.4	< 3		5.4		
12/22/2005		954		0.99	< 0.01				94.1	24.6	232				2349				0.85	< 0.005	18.3	0.17											7.66			50.7		350	140	7.6		1400	2.4	5		6		
5/12/2006							< 2																																								
5/12/2006		779	< 0.2	< 0.02	< 0.005	0.042			83.3	15.7	32.8	< 5	< 0.01		1865	< 0.025			0.085	< 0.005	8.6	0.017			< 0.2	< 0.04			19				7.23	< 10		16.8		400	188	11.7		1350	1.7	< 4		3.1		< 0.02

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml		umhos/cm	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	e	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																	
9WD																																																	
2/25/2002		201		< 0.02	0.06	0.45		< 0.005	85.7	< 10	56.2	< 5	0.2			560	0.24			151		58.8	5.6			< 0.2	0.22						7.25			24.3	< 0.015	26.6	41.6	6.5							0.18	0.38
6/10/2002	201	201		0.086	0.14	1		< 0.005	89.7	< 10	17.8	< 5	0.52			404	0.5			396		124	11.2			< 0.2	0.54						6.9			58.8	< 0.015	25.4	33.2	12.2							0.48	0.91
12/9/2002	172	172		< 0.02	< 0.01	0.026		< 0.005	66.7	< 10	13.6	< 5	< 0.01			520	< 0.025			1.8		17.7	0.2			< 0.2	< 0.04						7.01			6.6	< 0.015	25.8	27.6	7.7							32.1	< 0.04	< 0.02
5/15/2003	194	194		< 0.02	< 0.01	0.018		0.0012	60.1	< 10	14.6	< 5	< 0.01			493	0.0023			0.042		13.9	0.2			< 0.2	< 0.04		184				6.68			5.7	< 0.0002	24.9	28.6	15.2		326					0.2	< 0.04	< 0.02
8/12/2003	255	255		< 0.02	< 0.01	0.017		< 0.0005	61.4	< 10	13.4	< 5	< 0.01			485	0.0025			< 0.033		14.3	0.33			< 0.2	< 0.04		21				6.81			5.6	< 0.0002	27.1	26.6	21.8		362					0.9	< 0.04	< 0.02
12/5/2003	290	290		< 0.02	< 0.01	0.02		< 0.0005	58.4	< 10	17.2	< 5	< 0.01			451	0.0028			< 0.03		13.3	0.14	< 0.0002		< 0.2	< 0.04		30.1				6.31			5.4	< 0.0002	35	29.4	12.3		307					13.1	< 0.04	< 0.02
5/12/2004	295	295		0.075	< 0.01	0.016		0.00054	62.5	< 10	16	< 5	< 0.01			564	< 0.002			< 0.03		14.8	0.32	< 0.0002		< 0.2	< 0.04		213				6.75			5.4	< 0.0002	32.8	28.7	14		297					0.5	< 0.04	< 0.02
8/10/2004	312	312		0.055	< 0.01	0.014		< 0.0005	67.1	< 10	14	< 5	< 0.01			602	< 0.002			0.036		16.5	1.2	< 0.0002		< 0.2	< 0.04		1.2				6.72			5.6	< 0.0002	32.3	34	19.1		316					14.7	< 0.04	< 0.02
12/3/2004	250	250		0.042	< 0.01	0.014		< 0.0005	61.2	< 10	10.4	< 5	< 0.01			522	< 0.002			< 0.03		15.1	0.4			< 0.2	< 0.04		11				6.86			5.5	< 0.0002	29	26.4	6.1		305					1	< 0.04	< 0.02
5/19/2005		223		0.038	< 0.01	0.023		< 0.0005	63.6	< 10	9.2	< 5	< 0.01			476	< 0.002			< 0.03		15	0.59			< 0.2	< 0.04		-18				6.86			5.6	< 0.0002	24.8	21.3	15.4		296					2.2	< 0.04	< 0.02
8/16/2005		216		0.12	< 0.01	0.012		< 0.0005	59.4	< 10	9.1	< 5	< 0.01			993	< 0.002			< 0.03		14.1	1.1	< 0.0002		< 0.2	< 0.04		-165				5			4.7	< 0.0002	22.6	21.1	18		273					2.6	< 0.04	< 0.02
12/28/2005		221		< 0.02	< 0.01	0.013		< 0.0005	61.4	< 10	7.7	< 5	< 0.01			397	< 0.002			< 0.03		14.2	0.25	< 0.0002		< 0.2	< 0.04		-48				5.88			4.9	< 0.0002	20.8	25	10.7		275					5.6	< 0.04	< 0.02
5/16/2006		195		0.071	< 0.005	0.013		< 0.0005	59.4	< 10	7.4	< 5				551	< 0.002			< 0.03		15	0.56						78				6.57			5.2		23	19.4	13.5		274					1.5		
5/23/2007		166		< 0.02	< 0.005	0.0057		< 0.0005	49.3	< 10	7.4	< 5				629	< 0.002			< 0.03		11.7	1.6						105				6.82			4.7		17.2	16.2	18.3		243					5		
5/21/2008		202		0.33	< 0.005	0.016		< 0.0005	52.7		4.2	< 5				375	< 0.002			0.25		11.5	2.9						28				6.98			4.7		16.7	21.2	17		216	1.8				2		
5/21/2009		203		0.328	< 0.0050	0.0192		< 0.0005	47.9		6.3	< 5.0				492	< 0.0020	5		0.999		11.5	2.80					0.201			72	5.74					4.48		14.1	15.9	21.3		241	2.9				7.1		
5/18/2010		222		0.104	< 0.0056	0.0244		< 0.0005	49.5		5.2	< 5.0				417	< 0.0020	2		0.832		11.8	4.25					0.102			-160.3	6.33					4.70		14.0	13.6	19.5		235	2.1				5.3		
5/9/2011		209		< 0.20	< 0.0056	0.014		< 0.00050	47.4		5.2	< 5.0				406	< 0.0031	1.3		0.93		11.5	1.7					0.18			9	6.51					4.6		13.2	17.0	20.2		231	1.9				7.5		
5/10/2012		247			< 0.0056	0.023		0.000073	85.7		11.5	< 5.0				600	0.0012	4.3		5.2		14.0	4.6					0.025			55.9	6.48					8.3		10.6	79.8	13.5		361	2.2				57.9		
4/12/2013		225		0.22	0.0077	0.023		0.000024	56.6		6.5	< 5.0				498	0.0012	2.4		1.1		16.6	2.2					0.19			-10.0	6.68					5.0		16.6	24.7	15.5		284	2.8				10.7		
5/9/2014		201			< 0.0056	0.013		< 0.00050	43.3		5.8	< 5.0				376	0.00047	6.2		0.73		10.6	0.80					0.61			-68.0	6.77					4.1		12.1	25.0	19.9		211	2.1				0		
4/30/2015		181			< 0.0056	0.013		< 0.00050	50.4		6.4	< 5.0				394	0.00058	9.4		0.55		13.5	0.69					0.71			64.0	7.10					4.5		14.3	21.5	17.5		214	2.2				7.6		
5/19/2016		200			< 0.0056	0.012		< 0.00050	50		4.9	< 5.0				419	< 0.0031	2.6		0.38		13	0.47					0.48			4.9	6.72					4.9		16	25	21.8		220	1.6				2.5		
6/1/2017		170			< 0.0090	0.010		< 0.00050	51		5.1	< 5.0					< 0.0031	2.3		0.11		13	0.37					1.3			-41.6	6.56					4.8		14	21	25.0		240	1.7				7.1		
5/9/2018		200			< 0.0090	0.0063		< 0.00050	60		8.9	< 1.0					< 0.0020	3.7		0.055		14	1.5					1.1			15.3	6.54					4.9		14	51	18.2		280	1.6		1.8				
6/17/2019		190			< 0.0090	0.0073		< 0.00050	58		6.1	< 1.0					0.0033	1.3		0.047		14	2.2					0.46			47.0	6.70					4.6		13	33	19.7		280	1.3		13.7				
ABTD																																																	
11/11/1992	< 0.1	630		4.9	0.1	0.2	< 100	< 0.005	130	1000	99		< 0.01			1620	0.02			87	0.03	53	9.3			< 0.3	< 0.029999						6.9		0.86		< 0.02	82	60	8.2		1800	0.05	44			0.02	0.46
1/28/1993	< 0.1	800		6.9	0.07	0.2	70	< 0.00001	130	230	120		< 0.00001			1520	< 0.00001			74	0.013	56	7.6			< 0.01	< 0.00001						6.88		0.8		< 0.00001	91	20	6.6		960	0.05	90			0.01	0.17
5/6/1993	< 0.1	9600		63	0.11	0.3	200	< 0.00001	150	260	89		< 0.00001			918	0.16			180	0.03	53	11			< 0.01	0.03						7.13		0.46		< 0.00001	79	19	8.7		810	0.1	500			0.03	1.4
8/12/1993	< 0.1	1100		10	< 0.00001	0.2	70	< 0.00001	150	740	150		< 0.00001			1970	< 0.00001			25	< 0.00001	63	7.9			< 0.01	< 0.00001						6.61		0.13		< 0.00001	120	30	12.1		1300	0.07	2800			< 0.00001	0.05
10/27/1993		867		8.71	0.024	0.2196	16	< 0.0017	150.2	151	128	< 2	< 0.0058	<		1649	< 0.0066		159	28.24	< 0.0008	67.61	9.649			0.1	< 0.012		<				6.26	< 1	< 0.1		0.0098	116	6.95	10.4		1070	47.2	46	< 0		< 0.005	0.0237
3/2/1994				0.2	0.0035	0.022	< 2	< 0.0017	72.2	33	16.9	< 2	< 0.0058			682	< 0.0066		76.1	0.65	< 0.004	14.7	3.8			< 0.099999	< 0.012		<				6.74	< 1	< 0.1		< 0.008	21.7	28	7		314	5.1	< 3	< 0		< 0.005	0.015
3/17/1994														124		<												<				<												< 0			
5/2/1994		507		2.49	< 3.5	0.0764	4	< 0.0017	83.2	91	59.1	< 10	< 0.0058	10		903	0.007		83.2	7.91	< 4	49.1	7.88			0.089	0.0151		37				6.72	< 1	< 0.1		< 0.008	62.5	< 23.29999	10		623	20.807	23	< 0		< 0.005	0.0096
8/2/1994		727		10.8	0.3	3.72	< 2	0.0264	293	453	115	< 1	0.285			1690	0.261		293	1780	0.347	95	16.5			0.39	0.337		<				6.96	< 2	8.83		< 50	92.4	< 70	15.9		1100	84.1	3240	< 0		0.243	0.61
11/9/1994		984		2.86	0.078	2.78	7	< 30	198	151	63.9		0.402	880		521	0.379		198	1310	0.18	108	22.5			< 0.049999	0.39		<				6.28		1.3		< 50	77	193	12		880	89.5	3880	< 0		0.352	0.888
2/6/1995		551		5.87	0.81	2.11	6	< 15	172	87	72.1		0.065	110		1293	< 35		172	678	0.024	62.4	18.8			< 0.049999	< 45		59				7.08		< 0.2		< 50	90	14.5	3.2		713	18.3	810	< 0		< 15	0.137
5/10/1995		560		5.3	0.027	0.076	8	< 0.003	94.8	89	68.2		0.008	<		970	< 0.007		94.8	25.3	< 0.0009	43.7	10.9			< 0.049999	< 0.009		<				6.58		< 0.2		< 0.01	60.5	< 7	10		687	20.6	45	< 0		< 0.003	0.0073
8/31/1995		666		4.73	0.0187	0.105	< 6	< 0.0044	113	108	94.8	< 0.4	0.0046	9		1018	< 0.01		113	23.2	< 0.0009	66	11.3			< 0.049999	< 0.018999		<				6.65	< 2	< 0.2		< 0.01	104	1.9	19		878	29.2	45	< 0		< 0.007	< 0.01
12/7/1995		571		3.91	0.239	0.373	< 6	< 0.0044	114	85	58.5		0.0037	<		853	0.0176		114	194	0.0016	42.9	11.9			0.07	0.026		-31				7.07		< 0.2		< 0.01	56.1	< 14	11.4		612	16.4	2370	< 0		0.0126	0.0228
2/27/1996		495		3.18	0.0131	0.0662	3	< 0.0044	98.3	69	51.3		< 0.0034	<		722	< 0.01		98.3	20.4	< 0.0009	40.8	12.2			0.054	< 0.018999		-269				6.91		< 0.2		< 0.01	51.7	12.2	9.3		608	18.5	45	< 0		< 0.007	< 0.01
5/14/1996		425		2.3	0.0335	0.0632	3	< 0.0044	87.2	99	37.6	< 0.4	0.0052	<		864	< 0.01		87.2	30.9	< 9	37.3	11.3			0.058	< 0.018999		<				7.16	< 2	0.42		< 0.01	36.6	< 3.5	11.6		523	19.6	39	< 0		0.0108	< 0.01
8/21/1996									4820	1080				<		1110				66.7	0.0033	13	16.7									6.74			2230	< 50	4470		12.3		46000	16.6	138	< 0			
12/11/1996									83.8	58				4		900				717	0.097	30.4	12.2									5.89			8.61	< 0.01	46.6		5.9		530	13.1	53	< 0			
5/6/1997		419		2.21	0.0273	0.0556		< 0.0044	90.7	49	32.1	< 0.4	< 0.004	20		606	< 0.01		90.7	34.4	< 0.001	37	12			< 0.049999	< 0.018999						6.74	< 2			8.51	< 0.01	35.2	< 3.5	7.1		500	13.2	93	< 0		< 0.007	< 0.01
8/27/1997									111	96				1600		890				162	0.0045	51.8	13.4									6.4			9.03	< 50	56.6		16.5		660	23.3	290	< 0			
12/15/1997									102	61				<		1270				65	< 0.001	40.6	11.9									6.79			8.55	< 0.01	40.6		5.3		1520	15.8	76	< 0			
4/23/1998		386		1.61	0.036	0.0476		< 0.004	84	41	27.9	2	< 0.004	310		630	< 0.011		84	29.3	< 0.001	32.7	9.11			0.11	< 0.018999						6.32	< 1			7.3	< 0.01	26.8	< 3.5	8.8		471	11.1	48	< 0		< 0.007	< 0.01
8/31/1998									105	36				<		877				19.7	< 0.001	44.3	11.9									6.36	7			8.35	< 0.01	56.6		15.1		611	17.9	29	< 0			
12/2/1998									88.4	46				65		650				25.4	< 0.005	35.1	8.2									6.15			10	< 0.015	37.1		10.1		460	16.3	45	< 0			
3/2/1999		292							51.8		19.7	< 5										25.6	6													4.3		22.8	15.9									
5/4/1999														< 1																																			
5/4/1999		424		1.8	0.022	0.11		< 0.005	124	< 10	31.2	< 5	< 0.01			840	< 0.025			25.8	< 0.005	36.4	9.4	< 0.0002			< 0.04	0.055			6.53		< 10	19.2	< 0.015	81.5	14.7	12.3		472	19.1	44.5		< 0	< 0.025	< 0.1
8/11/1999									110	61.1						226				26.3	< 0.005	50.2	10.2								6.67			14.1	< 0.015	71.2		13.2		855	21.4	40.5				
8/11/1999														11																																		
11/18/1999														< 1																																		
11/18/1999									86.8	58.8						725				49	< 0.005	30.4	7.5								7.13			8.7	< 0.015	27.4		7.4		410	16.8	59.5				
5/3/2000		362		1	0.015	0.041		< 0.005	79.7	41.5	17.5	< 5	< 0.01	<		711	< 0.025			25	< 0.005	28.9	7.1			< 0.2	< 0.04						6.46	12		6.4	< 0.015	21.7	13.4	13.9		373	8.7	59.5			< 0.025	< 0.02
8/22/2000									95.3	21.8						614				33.7	< 0.005	39.1	9									6.33			7.5	< 0.015	40.4		11.8		499	13.8	71.5				
9/15/2000														1200																																		
12/13/2000									85.7	36.2						683				21.6	0.0054	35.7	7.8									6.98			7.3	< 0.015	33.6		8.6		959	15.3	54				
3/5/2001														8																																		
5/10/2001		385		0.84	0.026	0.06		< 0.005	89.8	22.8	21.8	< 5	< 0.01	27		578	< 0.025			33	< 0.005	33.8	7.8			< 0.2	< 0.04						6.62	< 10		7.8	< 0.015	29	8	14		462	10.9	26			< 0.025	< 0.02
8/8/2001									91.7	19.8				12		755				24.1	< 0.005	36.4	7.5									6.62			7.8	< 0.015	35.3		14.2		576	13.8	49				
12/10/2001									96.7	32.9				8		511				22.6	< 0.005	43.7	7.9									7.01			8.2	< 0.015	54.1		8.1		599	27	42				
5/9/2002	301	301		0.67	0.013	0.038		< 0.005	69.9	25.7	15.8	< 5	< 0.01	< 2		720	< 0.025			19.3	< 0.005	23.8	5			< 0.2	< 0.04						6.7	< 10		5.5	< 0.015	16.7	12.3	8.2		462	8.1	22			< 0.025	< 0.02
8/13/2002									95	38.3				4700						20.8	0.0057	42.1	6.8									6.27			7.4	< 0.015	43.3				550	25.9	48		77		
12/9/2002									86.3	15.6				<		716				15.5	0.0054	32.1	6.3									6.78			8.9	< 0.015	27.9		7.2		448	12	< 3		63		
4/30/2003		276		4.7	0.016	0.041		< 0.005	81	53.6	18.9	< 5	< 0.01	< 2		716	< 0.025			30.7	< 0.005	27.5	6.7			< 0.2	< 0.04		80				6.33	26		8.5	< 0.015	25.5	12.3	<		403	15.1	920		< 0	< 0.025	< 0.02
8/11/2003									94.8	52.6				< 10		736				42.8	0.009	33.6	7.2									7.2			15.7	< 0.015	35.3		15.4		590	15.6	50		90.8		
12/16/2003									72	13				48		1804				11.6	< 0.005	21.7	3.8									7.21			5.1	< 0.015	14.5		10.8		352	6.8	19		26.6		
5/14/2004	367	367	< 0.2	12.1	0.019	0.024	10	< 0.005	59.6	39.4	19.6	< 5	< 0.01			1974	< 0.025			15.7	< 0.005	27.7	5.2	< 0.0002		< 0.2	< 0.04		-71				6.95	20		3.6		25.2	9	17.3		402	8.2	48		44.5	< 0.025	< 0.02
8/12/2004	467	467		22.9	0.15				88.6	57.9	33.4					942				118	< 0.005	31	5.6									6.82			11.4		31.1	13.1	16.1		471	14.8	225		944		
12/6/2004	266	266		1.3	< 0.01				83.6	< 10	8.3					570				1.2	< 0.005	11	0.76									7.26			11.8		10.8	12.6	7.1		434	5.1	28		14		
5/24/2005							< 6																																										
5/24/2005		236	< 0.2	0.48	< 0.005	0.033		< 0.005	54	14.4	11.2	< 5	< 0.01			515	< 0.025			11	< 0.005	17.5	2.2			< 0.2	< 0.04		-14.5				6.83	< 10		3.9		12.2	16	8.6		286	6.8	9		30.9	< 0.025	< 0.02
8/17/2005		333		1	< 0.01				74.5	21.3	27.5					984				8.3	< 0.005	29.3	2.9									6.98			6.8		28.1	14.6	15		421	8.3	33		25.2		
12/28/2005		183		7.5	< 0.01				44.4	18.1	13.4					442				4.1	< 0.005	15.1	1.3									6.95			3.7		13.5	1.4	8.4		240	5.3	7		18.2		
5/16/2006							< 2																																									
5/16/2006		136	< 0.2	0.75	< 0.005	0.022		< 0.005	42.9	22.6	10.8	< 5	< 0.01			537	< 0.025			2.7	< 0.005	15	1.1			< 0.2	< 0.04		22				6.56	< 10		3.8		12.7	13.4	9.4		296	3.9	5		8.9	< 0.025	< 0.02
5/17/2007		294	1.4	2.7	0.0087	0.054	< 6		61.5	11	36.3	< 5	0.013			1358	< 0.025			5.6	0.019	20.7	1.7			< 0.2	< 0.04		-32				7.59	< 10		8.8		22.3	19.7	9.2		< 250	8.9	34.8		50.7	< 0.025	0.082
5/21/2008		281	< 0.2	1.8	< 0.005	0.039			63.6	17	15.2	< 5	< 0.01			542	< 0.025			7	< 0.005	20.3	1.8			< 0.2	< 0.04		19				7.22	< 10		5.7		18.4	1.2	9.2		315	6.6	8		19.1	< 0.025	< 0.02
5/14/2009		234	0.234	0.219	0.0068	0.0310	< 2.0		55.6	< 10.0	12.8	< 5.0	< 0.0100			505	< 0.0250	8.9		5.41	< 0.0050	17.5	1.32	< 0.0002			< 0.0400	0.287			-64.4	8.02		< 10		4.65		14.7	1.95	10.3		273	3.4	13.2			< 0.0250	< 0.0200
9/8/2009		298	0.051	0.614	0.0080	0.0372	< 2.0	< 0.0050	70.7	16.5	17.7	< 5.0	< 0.0100			664	0.0022	4.8		8.75	< 0.0050	24.3	2.09	< 0.0002			< 0.0400	0.065			51	6.32		< 10		4.73	< 0.0150	22.3	< 1.49	13.8		315	8.1	10.0			< 0.0250	< 0.0200
5/10/2010		333	0.084	19.8	< 0.0056	0.0439	10		54.3	55.4	107	< 5.0	0.0110			1373	< 0.0250	10.4		4.19	< 0.0050	19.2	1.23	< 0.0002			< 0.0400	0.324			24.8	7.27		< 10		38.1		63.1	< 1.49	7.5		499	16.6	< 4.0		27.2	< 0.0250	< 0.0200
5/18/2010		248		0.286	< 0.0100	0.0250		< 0.0005	57.0	15.8	11.5	< 5.0	< 0.0100			536	< 0.0020	10.5		3.78		19.8	1.39	< 0.0002			< 0.0400	0.169			-143.8	6.79				3.52	< 0.0002	15.7	1.84	13.6		269	5.3			9	< 0.0400	< 0.0200

Analyte / Unit	Alkalinity, Bicarbonate as CaCO3 mg/L	Alkalinity, Total mg/L	Aluminum mg/L	Ammonia Nitrogen mg/L	Arsenic mg/L	Barium mg/L	Biochemical Oxygen Demand mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chloroform ug/L	Chromium mg/L	Coliform colf/100ml	Conductivity umhos/cm	Copper mg/L	Dissolved Oxygen mg/L	Hardness, Calcium Carbonate mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Mercury ng/l	Mercury ug/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Oxidation Reduction Potential, field measured millivolts	Oxidation-Reduction Potential millivolts	pH, field measured pH units	pH, field measured SU	Phenol ug/L	Phosphorus mg/L	Potassium mg/L	Silver mg/L	Sodium mg/L	Sulfate mg/L	Temperature deg c	Thallium mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Turbidity ntu	Turbitity, field measured ntu	Vanadium mg/L	Zinc mg/L
Sample Date																																																
ABTD																																																
5/10/2011		286	< 0.060	17.8	< 0.0056	0.032	3.1		55.9	35.2	42.4	< 5.0	< 0.010		788	< 0.025	7.1		2.7	< 0.0050	17.9	1.2	< 0.00020			< 0.040	0.36			31	6.78		< 9.9		16.9		33.2	1.7	8.9		339	11.3	< 4.0		15.4	< 0.025	< 0.020
5/11/2012		272	< 0.060		< 0.0056	0.031	3.1		54.6	32.5	26.3	< 5.0	0.0036		703	< 0.025	7.7		2.7	< 0.0050	17.0	1.2	< 0.00020			0.0036	0.31			68.0	6.48		< 47		15.0		21.3	3.0	11.1		343	8.0	< 4.0		28.5	< 0.025	0.011
4/9/2013		420	< 0.060	19.3	0.0056	0.041	4.3		59.6	41.7	80.8	< 5.0	0.0045		1135	0.0023	4.6		3.1	< 0.0050	23.8	0.89	< 0.00020			0.0055	2.4			97.3	7.04		< 48		33.1		59.8	< 1.5	9.0		450	14.6	< 4.0		35.2	0.0016	0.036
5/16/2014		258	< 0.060		< 0.0056	0.025	< 2.0		58.8	15.4	8.7	< 5.0	< 0.010		524	< 0.025	8.2		2.8	< 0.0050	18.7	1.4	< 0.00020			0.0020	0.39			55	6.36		< 46		4.2		16.2	< 1.5	16.2		297	5.3	4.8		0	< 0.025	< 0.020
5/11/2015		260	< 0.060		< 0.0056	0.023	< 2.0		61.1	12.2	11.2	< 5.0	< 0.010		448	0.0022	5.3		3.8	< 0.0050	20.0	1.3	< 0.00020			< 0.040	0.36			-57.0	7.49		< 48		4.6		16.7	< 1.5	11.2		263	5.8	6.4		14.9	< 0.025	0.0025
5/20/2016		260	< 0.060		< 0.0056	0.022	< 2.0		63	< 10	8.9	< 5.0	< 0.010		509	< 0.025	5.4		3.1	< 0.0050	20	0.91	< 0.00020			< 0.040	0.44			24.6	6.56		< 50		4.1		16	2.9	16.3		250	5.4	7.2		33.0	< 0.025	< 0.020
6/1/2017		230	< 0.080		< 0.0090	0.019	< 2.0		55	< 10	7.1	< 5.0	< 0.010			< 0.025	6.3		1.9	< 0.0050	16	0.60	< 0.00020			< 0.040	0.36			-21.5	6.79		< 50		3.7		12	< 5.0	16.1		250	3.4	< 4.0		13.9	< 0.025	< 0.020
5/9/2018		220	< 0.080		< 0.0090	0.020	< 2.0		54	< 10	19	< 1.0	< 0.010			< 0.025	8.6		1.7	< 0.0050	15	0.79	< 0.00020			< 0.040	0.41			51.3	6.52		< 10		3.5		11	< 5.0	14.6		250	3.6	< 4.0	6.7		< 0.025	< 0.020
ASBTD																																															
10/29/1996	494	494		3.05					105		48.5				1016				30.8		46.4	12.2										7.21		10		52.2	21.5	10.9		592	17.5					
ECS9																																															
3/12/1998		23.4		0.24	0.0031	0.0075	4	< 0.004	10.8	9	13.8	< 0.4	< 0.004		87	0.0335		10.8	0.326	< 0.001	1.41	0.0593			< 0.099999	< 0.018999						8.08	29		2.03		3.35	3.2			187	3.8	3			< 0.007	0.0382
ECSOUT																																															
3/12/1998		67.7		0.06	0.0094	0.0149	2	< 0.004	22.5	51	11.1	< 0.4	< 0.004		63	0.0143		22.5	1.46	0.0025	4.1	0.925			< 0.099999	< 0.018999						7.85	< 1		3.09		5.25	5.7			317	4.2	27			< 0.007	0.0265
MSWL																																															
11/11/1992	< 0.1	1000		31	0.07	0.2	< 100	< 0.005	220	930	140		0.06		2600	< 0.02			120	< 0.005	81	11			< 0.3	0.04						6.46		0.82		< 0.02	140	40	15.2		1500	0.26	760			< 0.01	0.07
1/28/1993	< 0.1	1200		39	0.04	0.1	570	< 0.005	200	1800	200		0.08		2380	< 0.02			73	< 0.005	88	7.5			< 0.3	< 0.029999						6.69		0.9		< 0.02	170	30	7.1		1600	0.28	370			< 0.01	0.07
5/6/1993	< 0.1	920		34	0.11	0.1	600	< 0.005	130	2300	100		0.03		1190	< 0.02			140	< 0.005	52	10			< 0.3	0.06						6.76		0.99		< 0.02	82	18	9.8		960	0.2	700			0.02	0.1
8/12/1993	< 0.1	3000		180	0.04	0.3	400	< 0.005	280	1000	460		0.17		5830	< 0.02			75	0.017	180	3.9			< 0.3	0.08						6.33		0.61		< 0.02	500	30	14.2		3100	0.4	120			0.01	0.17
10/27/1993		1250		53.1	0.055	0.1545	140	< 0.0017	148.7	364	207	< 2	0.0524	58	2360	< 0.0066		154	49.32	0.005	92.28	9.77			0.18	0.0348		<				6.44	< 1	< 0.1		< 0.008	207	< 1.399999	10.2		1420	114	132	< 0		< 0.005	0.2036
3/2/1994				32.7	0.42	0.36	< 120	< 0.0085	131	253	164	< 20	0.14		1644	< 0.033		132	234	0.093	84.7	11			< 0.099999	0.31		<				6.5	5.136405	1.26		< 0.041	143	7.1	7.3		918	75.3	916	< 0		0.077	0.81
3/17/1994														76	<													<										<					< 0				
5/3/1994		561		20.9	0.0275	0.0783	57	< 0.0017	90.2	201	88.9	< 10	0.0172	5	1242	< 0.0066		90.2	43.6	< 4	41.6	11			0.15	0.0246		-53				6.27	7	< 0.1		< 0.008	73.4	< 7	14.5		734	40.458	90	< 0		< 0.005	0.0263
8/2/1994		1330		72.3	0.0368	0.131	< 120	< 0.003	149	356	278	< 1	0.0541	5	3080	< 0.007		149	68	0.004	110	10.7			0.22	0.0396		<				6.59	< 2	0.35		< 0.01	261	< 7	15.9		1530	107	89	< 0		< 0.003	0.0478
11/9/1994		634		24.8	0.053	0.0931	24	< 15	95.4	123	113		< 15	750	652	< 35		95.4	71.1	0.013	53.2	13.4			< 0.049999	< 45		<				6.2		0.25		< 50	105	< 7	12.5		832	33.3	207	< 0		< 15	0.0909
2/6/1995		759		35	0.071	0.09	< 120	0.0044	95.6	145	150		0.0308	<	1834	0.0168		95.6	63.7	< 4.5	61.5	10.6			< 0.049999	0.0438		49				6.51		0.27		< 0.01	131	< 2.799999	4.4		918	43.3	73	< 0		0.0072	0.185
5/10/1995		815		38	0.109	0.0932	26	0.0058	85.9	158	168		0.0347	<	1498	0.0248		85.9	110	0.0152	55.6	8.97			< 0.049999	0.0847		<				6.31		0.27		< 0.01	121	< 7	10.1		971	42.7	158	< 0		0.0108	0.236
8/31/1995		1840		121	0.0626	0.159	< 24	< 0.0044	143	353	448	< 0.4	0.0671	<	3070	< 0.01		143	44	0.0026	137	6.3			0.06	0.0608		<				6.75	< 2	< 0.2		< 0.01	396	< 2.799999	16.2		2250	105	113	< 0		0.0083	0.0434
12/7/1995		581		28.1	0.274	0.148	< 24	< 0.0044	90.3	260	124		0.0317	<	1506	0.0132		90.3	221	0.175	49.7	10.1			0.17	0.102		-18				6.73		< 0.2		< 0.01	103	< 7	7.7		709	29.9	468	< 0		0.0104	0.136
2/27/1996		117		167	< 17.5	6.4	< 24	< 22	4090	818	17700		< 17	<	730	< 50		4090	39.8	< 1.799999	13.8	12.6			0.063	< 95		-283				6.39		< 0.2		< 50	3540	8.6	6.8		26400	6.1	77	< 0		< 33.5	< 50
5/14/1996		318		9.84	< 7	0.208	11	0.0098	71.9	74	48.9	< 0.4	0.0633	<	794	< 0.01		71.9	436	< 4.5	25.6	11.2			0.05	0.154		<				6.41	< 2	< 0.2		< 0.01	46.5	12.9	9.1		418	13.9	474	< 0		0.0358	0.149
8/21/1996									104	268				420	2340				63.7	0.0536	71.5	9.87									6.6			49.1	< 0.01	190		14.2		1200	62.4	113	< 0			
10/29/1996	387	387		13.5					63.7		74.2				841				154		30.4	8.69									6.65			15.8		62.8	27	11		551	22					
12/11/1996									97.1	69				<	660				27.8	< 0.001	36.6	10.9									6.48			12	< 0.01	38.5		6.8		405	15.3	245	< 0			
5/6/1997		290		9.57	0.277	0.12		< 0.0044	51.5	70	52.4	< 0.4	0.0373	1100	547	0.311		51.5	153	0.0234	25.8	8.18			< 0.049999	0.0751						5.2	< 2		12.8	< 0.01	42.6	18.1	6.6		388	29.4	166	< 0		0.0293	0.345
8/27/1997										145				<	1460																6.29							14.2		919	47.9	101	< 0			
12/15/1997									94.7	165				<	812				1090	0.049	33.8	13									6.64			17.5	< 0.01	63.9		5.5		820	40.7	168	< 0			
4/23/1998		318		9.17	0.521	0.657		0.0452	83.7	73	49.7	< 0.4	0.0451	330	634	0.121		83.7	1040	0.0417	28.1	10.6			< 0.099999	0.0674						6	< 1		12.2	< 0.01	42	7.7	7.6		401	20	555	< 0		0.0871	0.538
8/31/1998									117	192				<	2210				57.1	< 5	88.9	7.81									6.56	14		68.6	< 0.01	244		18.3		1400	65.3	82	< 0			
12/2/1998									43.5	49.7				56	695				30.4	< 0.005	25.1	6.9									5.77			12.2	< 0.015	42.7		9.9		287	21	229	< 0			
3/2/1999		194							27.4		32.3	< 5									15.8	3.8												5.7		25.8	< 5									
5/5/1999		463		18.6	2.4	0.54		< 0.005	95.9	123	1.2	< 5	0.11	< 1	1377	0.2			1180	0.048	42.9	9.6	< 0.0002			0.069	< 0.05			6.02		< 10		25	< 0.015	88.8	11.5	14.1		694	47.1	646		< 0	0.29	0.1
8/11/1999					0.055	0.081		< 0.005	83.6	180		< 5	0.012		8440	< 0.025			36.2	< 0.005	65.5	5			< 0.2	< 0.04						7.12			46.3	< 0.015	188		18.4		985	50.4	67			< 0.025	0.029
8/11/1999														20																																
11/18/1999														2																																
11/18/1999					0.23	0.078		< 0.005	50.5	87.2		< 5	0.011		794	< 0.025			132	0.018	25.2	7.1	< 0.0002			< 0.04				6.61					14.3	< 0.015	46.4		8.2		369	184	228			0.066	< 0.02
5/3/2000		297		9.3	0.027	0.034		< 0.005	45	60.9	47.6	< 5	< 0.01	<	631	< 0.025			41.8	< 0.005	22.3	7.7			< 0.2	< 0.04						6.1	< 10		11.5	< 0.015	37.4	11.6	16.7		302	12.8	49.5			< 0.025	< 0.02
8/20/2000					0.061	0.07		< 0.005	79.5	81.2		< 5	< 0.01		908	< 0.025			58.9	< 0.005	49.3	8.9			< 0.2	< 0.04						6.25			26.2	< 0.015	101		13.9		730	30.8	70.5			< 0.025	0.023
8/22/2000														88																																
12/13/2000					0.12	0.058		< 0.005	68	73.3		< 5	< 0.01	<	970	< 0.025			53.4	< 0.005	40	8			< 0.2	< 0.04						6.64			19.2	< 0.015	82.9		8.4		498	24.7	77			< 0.025	< 0.02
5/10/2001		459		14.2	0.46	0.19		0.012	72.1	57.6	108	< 5	0.02	200	799	< 0.025			621	< 0.005	36.7	9.7			< 0.2	< 0.04						6.07	< 10		17.1	< 0.015	64.9	9.5	14.9		537	22.4	39			< 0.025	< 0.02
8/8/2001					0.061	0.068		< 0.005	84	84.2		< 5	< 0.01	< 4	1142	< 0.025			60.2	< 0.005	53	8.3			< 0.2	< 0.04						5.67			26.1	< 0.015	111		22.9		692	32.3	56			< 0.025	< 0.02
12/10/2001					0.061	0.06		< 0.005	77.9	76.1		< 5	< 0.01	8	562	< 0.025			41.3	< 0.005	53.4	6.1			< 0.2	< 0.04						6.37			21.8	< 0.015	96.5		8.9		598	28.6	41			< 0.025	< 0.02
5/9/2002	341	341		8.4	0.04	0.043		< 0.005	53.6	40.3	49.7	< 5	< 0.01	< 2	918	< 0.025			53.6	< 0.005	23.6	8.4			< 0.2	< 0.04						6.4	< 10		11.6	< 0.015	39.5	13.6	8.4		473	14	24			< 0.025	< 0.02
8/13/2002					0.086	0.075		< 0.005	97.2	86		< 5	< 0.01	80		< 0.025			58.1	0.0082	65.4	7.3			< 0.2	< 0.04						6.03			24.9	< 0.015	44.3				821	31.4	68		6.9	< 0.025	< 0.02
12/9/2002					0.056	0.044		< 0.005	58.2	40.2		< 5	< 0.01	16	1662	< 0.025			44.7	< 0.005	34.1	7.3			< 0.2	< 0.04						6.06			17.9	< 0.015	57.4		6.7		506	20	12		3.4	0.047	< 0.02
4/30/2003		176		4	0.026	0.027		< 0.005	35.2	16.7	33.8	< 5	< 0.01	12	484	< 0.025			36.6	< 0.005	16.9	5.1			< 0.2	< 0.04		26				5.82	< 10		7.4	< 0.015	26.6	8.3	<		260	9	320		< 0	< 0.025	< 0.02
8/11/2003					0.049	0.051		< 0.005	62.6	45.2		< 5	< 0.01	< 10	982	< 0.025			62.6	0.005	31.1	8.5			< 0.2	< 0.04						5.99			13.5	< 0.015	50.5		18.1		604	16.1	< 3		3	< 0.025	< 0.02
12/16/2003					0.024	0.037		< 0.005	58.9	11		< 5	< 0.01	100	842	< 0.025			20.7	< 0.005	22.1	5.9	< 0.0002		< 0.2	< 0.04						6.39			6.6	< 0.015	24.7		10.3		347	7.7	16		9.2	< 0.025	< 0.02
5/14/2004	247	247	< 0.2	0.96	0.015	0.045	11	< 0.005	80.5	34.8	58.4	< 5	< 0.01		815	< 0.025			24.5	< 0.005	27.7	5.2	< 0.0002		< 0.2	< 0.04		-13				6.33	< 10		5.8		19.8	16.1	15.5		414	8.3	25		10.3	< 0.025	< 0.02
8/12/2004	345	345		1.4	0.03	0.034		< 0.005	76.4	36	85.6	< 5	< 0.01		953	< 0.025			30.6	< 0.005	39.6	6.6	< 0.0002		< 0.2	< 0.04						6.22			4		39.1	11.7	15		576	12.3	36		11.6	< 0.025	< 0.02
12/6/2004	160	160		0.52	0.0086	0.02		< 0.005	50.5	12.4	20.6	< 5	< 0.01		520	< 0.025			3.2	< 0.005	16.1	2.9			< 0.2	< 0.04						6.58			3.8		13.2	43.8	7.2		266	6.1	18		17	< 0.025	0.054
MW-1																																															
6/14/1995							7								51			4.6	20.3									<			5.96		< 0.2						24					< 0				

Analyte	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total	Aluminum	Ammonia Nitrogen	Arsenic	Barium	Biochemical Oxygen Demand	Cadmium	Calcium	Chemical Oxygen Demand	Chloride	Chloroform	Chromium	Coliform	Conductivity	Copper	Dissolved Oxygen	Hardness, Calcium Carbonate	Iron	Lead	Magnesium	Manganese	Mercury	Mercury	Mercury	Nickel	Nitrate	Nitrite	Oxidation Reduction Potential, field measured	Oxidation-Reduction Potential	pH, field measured	pH, field measured	Phenol	Phosphorus	Potassium	Silver	Sodium	Sulfate	Temperature	Thallium	Total Dissolved Solids	Total Organic Carbon	Total Suspended Solids	Turbidity	Turbitity, field measured	Vanadium	Zinc
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	colf/100ml	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/l	ug/L	mg/L	mg/L	mg/L	millivolts	millivolts	pH units	SU	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	deg c	mg/L	mg/L	mg/L	mg/L	ntu	ntu	mg/L	mg/L
Sample Date																																																
TANK																																																
2/7/1995					0.0401	1.25	46	< 0.003		272			0.0134		6700	0.0331				0.0091					0.073	0.0317			67			6.82				< 0.01			1.8				77	< 0			0.0987
5/10/1995					0.0235	0.93	21	< 0.003		198			0.0103		6350	< 0.007				< 0.0009					< 0.049999	0.0145			<			6.96				< 0.01			12				30	< 0			0.0049
8/30/1995					< 175	8.92	< 120	0.279		515			0.972		9740	2.87				1.59					80.2	3.72			<			7.37				0.124			22.5				34500	< 0			22.1
12/5/1995					< 3.5	1.06	125	< 0.0044		363			0.0085		9950	0.0135				< 4.5					0.077	0.0436			-56			7.47				< 0.01			7.6				66	< 0			0.0734
2/27/1996					0.0285	1.21	1740	< 0.0044		2940			< 17		6920	0.471				0.0027					0.12	0.445			-330			6.3				< 0.01			6				39	< 0			0.0433
5/14/1996					0.0319	1.1	2210	0.005		3250			0.0206		11770	0.339				0.05					0.37	0.536			<			6.66				< 0.01			12.8				250	< 0			1.1
8/21/1996					0.0515	2	< 600	< 0.0044		1170			0.0214		16640	0.0647				0.0243					0.15	0.152			<			7.24				< 0.01			17.7				188	< 0			0.121
12/17/1996					0.0526	1.46	972	< 0.0044		5950			0.0192		5450	0.14				0.0401					0.14	0.409			<			5.55				< 0.01			7.5				317	< 0			1.76
2/12/1997															<														<										<					< 0			
5/14/1997					0.0268	0.993	650	< 0.0044		1530			0.0225		1440	0.0126				0.0152					0.079	0.131			<			6.62				< 0.01			11.6				163	< 0			0.579
8/21/1997					0.0487	2.37	1650	0.0052		2840			0.0137		17790	0.153				0.0886					< 0.049999	0.19			<			6.99				< 0.01			16.2				127	< 0			3.62
12/15/1997					0.0275	0.996	461	< 0.0044		889			0.0064		4720	0.0647				0.0145					< 0.049999	0.145			<			6.56				< 0.01			4.3				68	< 0			0.633
5/28/1998					0.0154	1.01	683	< 0.004		1200			0.0137		5390	0.203				0.0465					< 0.099999	0.0791			<			6.94				< 0.01			17.4				69	< 0			2.13
9/1/1998					0.0861	3.76	5500	0.0057		4610			0.0378		25000	0.559				0.0768					< 0.099999	0.291			<			6.78	8500			< 0.01			20.4				226	< 0			1.31
12/15/1998					0.038	1.1	188	0.015		755			< 0.01		3370	1.8				0.08					< 0.2	0.1						6.96				< 0.015			8.5				91	< 0			8.3
5/13/1999																								66.2																								
5/13/1999					0.054	1.9	1420	0.0052		3440			0.062	220	8410	0.17				0.023			< 0.0002			0.28					7.17				< 0.015			14				220		< 0		0.96
9/2/1999					0.063	4.1	2110	0.0081		4180			0.038		12920	0.23				0.36			< 0.0002			0.23					6.9				< 0.015			21.4				154				0.8
9/29/1999					0.024	0.64	101	< 0.005		1910			0.012	5900	3810	0.065				0.1			< 0.0002			0.076					7.16				< 0.015			17.2				54				0.52
11/18/1999																									0.038																						
11/18/1999					0.047	2	870	< 0.005		1790			0.011		10630	0.054				0.03			< 0.0002			0.17					7.06				< 0.015			9.2				177				1.5
5/10/2000					0.02	1.1	485	< 0.005		1300			0.012	100	9700	0.24				0.058						0.064						6.97				< 0.015			13.1				108				4.7
8/22/2000					0.075	3.3	1300	0.0066		2430			0.024			0.18				0.25						0.23									< 0.015							199				1.9
9/15/2000																									0.0308																						
12/21/2000					0.058	1.7	1700	< 0.005		2700			0.032		8900	0.049				0.025					0.000042	0.076						6.56				< 0.015			7.9				221				0.68
5/10/2001																									0.0053																						
5/10/2001					0.065	1.4	35800	< 0.005		1090			0.024		8480	< 0.025				0.0053					< 0.2	0.066						7.27				< 0.015			18.3				140				0.21
8/16/2001																									0.0032																						
8/16/2001					0.079	1.4	90.6	< 0.005		1030			0.023		14180	< 0.025				0.016						0.078						6.62				< 0.015			25.2				86				0.22
12/13/2001					0.061	0.84	42.4	< 0.005		344			0.029		1607	0.041				0.0075					0.012	0.064						6.78				< 0.015			7.5				108				0.18
5/9/2002					0.046	0.83	355	< 0.005		1000			0.057		10905	0.062				0.026					0.0015	0.087						6.96				< 0.015			12.7				91				0.43
8/13/2002					0.12	1.8		< 0.005		2000		< 8	0.042			0.029				0.011					0.0014	0.079						7.06	210			< 0.015							73		81		0.095
12/9/2002					0.092	1.2	406	< 0.005		1160		< 5	0.082		13720	0.062				0.035					0.0088	0.074						7.35	94			< 0.015			6.1				190		315		20
4/30/2003					0.038	1.9	274	< 0.005		1040			0.035		14958	0.036				0.019					0.0066	0.048			121			6.83				< 0.015			<	< 0.01			98		< 0		0.38
8/11/2003					0.071	1.2	620	< 0.005		1200		< 5	0.042		5900	0.027				0.026					0.0152	0.092						7.18	< 87			< 0.015			24.7	< 0.01			138		292		0.7
12/16/2003																									0.011																						
12/16/2003					0.05	1	423	< 0.005		1100		< 5.3	0.023		9633	< 0.025				0.0078				11		0.042						7.15	110			< 0.015			11.5	< 0.01			82		300		0.083
5/11/2004																									0.0177																						
5/11/2004				326	0.06	0.77	490	< 0.005		1370			0.042		10498	0.058				0.049				17.7		0.081			123			7.17				< 0.015			16.1	< 0.01			73		250		8.7
8/12/2004																									0.0159																						
8/12/2004				349	0.067	0.68	210	< 0.005		805		< 5.3	0.036		10891	0.066				0.011				15.9		0.059						7.64	69			< 0.015			25.2	< 0.01			225		2700		0.83
12/6/2004				197	0.024	0.42	500	< 0.005		1090		< 5.3	0.033		7500	0.071				0.0078					0.0249	0.055						7.49	230			< 0.015			8.4	< 0.01			103		559		0.88
5/24/2005							540																		0.0304																						
5/24/2005				218	0.049	0.98		< 0.005		1370			0.076		10180	0.4				0.035						0.084			-17			7.14				< 0.015			13.5	< 0.01			124		324		0.58
8/16/2005							220																																									
8/16/2005				384	0.046	1.3		<		974		<	0.037			<				<					0.0151	0.059							56			<				<				78				<
12/28/2005				454	0.13	1.5	110	< 0.005		579		< 5	0.056		10568	0.59				0.34					0.0296	0.076						5.68	13			< 0.015			7.6	< 0.01			260		747		0.17
5/17/2006				426	0.093	1.3	27	< 0.005		959			0.038		13980	0.16				0.19					0.0069	0.068			112.6			7.19				< 0.015			15.9	< 0.01			582		477		0.069
8/31/2006				459	0.12	1.3	86	< 0.005		1040		< 5	0.053		12330	0.098				0.059				40.5		0.072						7.46	< 10			< 0.01			21.7	< 0.01		118	662	350			0.12
12/15/2006				506	0.15	1.6	109	< 0.005		1550		< 5	0.061			0.49				0.1					< 0.0005	0.12							< 10			< 0.015			11.6	< 0.01		143	393	528			0.21
5/18/2007																									0.0428																						
5/18/2007				694	0.18	1.1	160	< 0.005		1420			0.14			0.49				0.17						0.086										< 0.015				< 0.01		237	2730				0.16
8/16/2007				907	0.16	1.5		< 0.005		1320		< 5	0.054		16904	0.46				0.11					0.0216	0.092			-119			6.74	< 10			< 0.015			22.7	< 0.01		174	329		334		0.059
8/17/2007							< 60																																								
12/14/2007				976	0.23	2	45	< 0.005		2090		< 5	0.094		19020	0.83				0.67					0.0075	0.12			-41			7.45	< 10			< 0.015			8.5	< 0.01		172	1030		537		0.21
5/28/2008				744	0.12	0.95	37	< 0.005		1110			0.062		1849	0.23				0.12					< 0.005	0.086			3			7.23				< 0.015			16.6	< 0.01		192	121		227		0.051
8/19/2008				440	0.16	0.98	55	< 0.005		1530		< 5	0.076			0.39				0.044					0.0583	0.12						7.59	< 10			< 0.015				< 0.01		229	96.8				0.074
12/11/2008				722	0.15	0.88		< 0.005		1140		< 5	0.06			0.95				0.072						0.1									< 0.015				< 0.01		154	68.8				0.088
5/21/2009				685	0.116	0.876	34	< 0.0050		1060			0.0491	10	16180	0.880	2.6			0.117				6.5		0.0763				63	7.66				< 0.0150			26.4	< 0.0100		118	71.2		163		0.0800
9/8/2009				1050	0.186	1.01	37	< 0.0050		1160		< 10	0.0450	< 10	21370	0.712	2.9			0.0202				4.5		0.0983					7.66		< 25		< 0.0030			22.8	< 0.0200		41.5	23.6		171		0.0446
11/12/2009				418	0.111	0.872	30	< 0.0050		1340		< 10	0.0370	< 10	16730	0.210	4.4			< 0.0050				3.2		0.0802				142.2	7.81		< 24		< 0.0150			14	< 0.0102		128	54.4		191		< 0.0200
5/18/2010				423	0.115	0.807	29	< 0.0050		914			0.0420	150	17060	0.150	2.4			0.0068				7.7		0.0863				-133.3	7.70		< 4.8		< 0.0150			19.2	< 0.0102		139	45.2		161		< 0.0200
8/12/2010				800	0.164	0.929	65	< 0.0050		1110		< 10	0.0536	700	18000	0.691	4.2			0.0118				2.9		0.110				155	7.69				< 0.0150			23.9	< 0.0102		151	153		297		0.0298
11/8/2010				583	0.0936	0.748	29	< 0.0050		756		< 10	0.0451		13230	1.01	6.4			0.0119				0.98		0.105				140.8	7.82		< 5.1		< 0.0150			13.4	< 0.0102		119	43.2		129		0.0278
5/9/2011				574	0.13	0.88	21	< 0.0050		862			0.062		15090	0.65	3.7			0.043				6.1		0.097				118	7.66		< 4.7		< 0.015			18.0	< 0.010		128	64.7		214		0.057
8/11/2011					0.11	0.90	34	< 0.0050		1020		< 25	0.050		22290	0.85	3.2			0.087				14.5		0.12				95.2	7.46		< 24		< 0.015			25.4	< 0.010		158	288		352.0		0.087
11/10/2011					0.16	0.77	68	< 0.0050		1570		< 100	0.062		19610	0.56	-4.8			0.12				12.2		0.13				64.0	7.84		< 120		< 0.015			17.8	< 0.010		182	122		187.0		0.086
5/11/2012		0.22			0.11	0.50	160	0.0015		825			0.075		9614	1.1	0.9			0.21				111		0.14	< 0.050	< 0.050		-27.4	7.67		34	1.7	< 0.015			15.0	< 0.010	4520	201	20.4		114.0		0.30
8/17/2012		0.15			0.16	0.82	43	0.00069		903			0.078		16176	0.073	2.5			0.0054		< 0.00020				0.13	0.035	< 0.050		2.6	7.88		< 95	1.8	0.0018			24.2	< 0.010	7270	220	76.8		249.0		0.024
11/13/2012		0.14			0.14	0.88	54	0.0011		1130			0.11		15958	0.20	2.9			0.023				0.44		0.14	0.036	< 0.050		170.8	7.91		< 96	2.4	< 0.015			11.6	< 0.010	6490	215	32.0		120.0		0.051
4/9/2013		0.41	619	0.13	0.68	36	< 0.0050			928			0.12		13979	0.29	2.9			0.024				13.3		0.12	0.33	0.21		87.2	7.90		< 99	1.8	< 0.015			11.1	< 0.010	5810	244	39.2		73.4		0.090
8/13/2013		0.13			0.14	0.77	43	0.0015		1140			0.14		15548	0.11	0.7			0.018				17.2		0.14	< 0.05	< 0.05		6.5	7.94		< 4.6	3.4	< 0.015			21.5	< 0.01	5930		18		68.8		0.055
11/12/2013		0.21			0.19	1.0	55	0.00055		1370			0.15		19228	0.94	4.9			0.068				16.8		0.16	0.15	0.26		99.8	8.17		< 4.8	2.4	< 0.015			9.5	< 0.010	8380		107		141.0		0.14
5/15/2014		0.061			0.13	0.50	56	0.00091		817			0.097		16200	0.030	3.7			0.0039				20.3		0.099	0.20	0.76		54.0	7.78		< 4.7	2.5	< 0.015			18.9	< 0.010	6790		74.0		133.0		0.049
11/5/2014		0.20			0.21	0.80	63.2	< 0.0050		844			0.20		16500	0.11	3.5			0.024				31.8		0.17	< 0.050	< 0.050		74.0	8.10		< 230	3.5	< 0.015			15.9	< 0.010	6210		123		167.0		0.083
11/7/2014														5172																																		
4/30/2015		0.11			0.16	0.68	57	< 0.0050		677			0.19		14700	0.030	3.8			< 0.0050				1.8		0.13	0.13	0.23		92.0	8.48		< 230	5.4	< 0.015			17.1	< 0.010	7460		39.2		64.0		0.044
8/28/2015		0.13			0.15	0.58	62	0.0013		786			0.18		11700	0.011	6.8			< 0.0050				2.5		0.12	< 0.050	0.18		235.0	7.71		< 240	4.8	< 0.015			24.1	< 0.010	5340		79.5		80.7		0.023
11/12/2015		0.17			0.16	0.69	69	< 0.0050		890			0.22		14300	< 0.025	3.5			0.0051				8.1		0.14	< 0.050	0.32		87.0	7.85		< 250	5.6	< 0.015			14.1	< 0.010	7400		28		208.0		0.022
5/20/2016		0.20			0.20	0.71	56	< 0.0050		870			0.25		15739	< 0.025	2.3			0.0080				3.4		0.14	< 0.050	< 0.050		57.4	7.48		< 630	5.4	< 0.015			21.7	< 0.010	7100		55		100.9		0.022
8/24/2016		0.21			0.23	0.61	67	< 0.0050		800			0.26		17050	< 0.025	3.7			0.0054				9.8		0.14	< 0.050	< 0.050		29.7	7.70		< 260	5.2	< 0.015			24.5	< 0.010	6800		82		61.4		0.026
11/8/2016		0.25			0.28	0.57	< 120	< 0.0050		44			0.32		14912	< 0.025	3.6			0.012				18		0.16	< 0.050	< 0.050		68.0	8.06		< 260	6.1	< 0.015			16.8	< 0.020	6400		37		73.3		0.043
6/2/2017		0.22			0.19	0.48	61	< 0.0050		810			0.27			< 0.025	5.2			0.0065				17		0.14	< 0.050	< 0.050		77.1	7.80		< 250	6.3	< 0.015			21.7	< 0.020	5100	300	21		27.3		0.045
8/31/2017		0.29			0.20	0.61	77	< 0.0050		1000			0.30			< 0.025	4.1			0.0068				2.5		0.16	0.32	0.26		45.6	8.04		< 1300	6.9	< 0.015			19.5	< 0.020	8800		35		41.5		0.037
11/16/2017		< 2.5			0.25	0.53	170	< 0.0050		1400			0.51			0.049	6.2			0.019				16		0.18	< 0.050	< 0.050		50.2	8.09		< 1300	9.2	< 0.015			19.8	< 0.020	8400		110	51.5			0.075
5/10/2018		0.47			0.22	0.55	130	< 0.0050		2500			0.47			< 0.025	4.2			0.014				21		0.15	< 0.050	< 0.050		125.4	7.9		< 1300	9.6	< 0.015			20.5	< 0.020	5500	330	6.4	26.9			0.045
9/5/2018		0.35			0.21	0.58	140	< 0.0050		1200			0.38			< 0.025	4.0			0.0098				15		0.14	< 0.050	< 0.050		135.5	7.9		< 500	7.5	< 0.015			27.0	< 0.020	7400		7.6	23.0			0.033

Appendix H-4
WMDSM Crossroads Landfill
Historical Data Table: Leachate Collection and Leachate Detection Data

Analyte / Unit	Alkalinity, Bicarbonate as CaCO3 mg/L	Alkalinity, Total mg/L	Aluminum mg/L	Ammonia Nitrogen mg/L	Arsenic mg/L	Barium mg/L	Biochemical Oxygen Demand mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chloroform ug/L	Chromium mg/L	Coliform colf/100ml	Conductivity umhos/cm	Copper mg/L	Dissolved Oxygen mg/L	Hardness, Calcium Carbonate mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Mercury ng/l	Mercury ug/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Oxidation Reduction Potential, field measured millivolts	Oxidation-Reduction Potential millivolts	pH, field measured pH units	pH, field measured SU	Phenol ug/L	Phosphorus mg/L	Potassium mg/L	Silver mg/L	Sodium mg/L	Sulfate mg/L	Temperature deg c	Thallium mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Turbidity ntu	Turbitity, field measured ntu	Vanadium mg/L	Zinc mg/L
Sample Date																																																	
TANK																																																	
11/27/2018			< 2.5		0.22	0.46	250	< 0.0050		1100			0.38			0.14	7.9			0.0089				13		0.15	< 0.050	0.075		45.7	8.06		< 250	8.5		< 0.015				16.4	< 0.020	5400		27	19.0			0.055
6/13/2019			0.49		0.21	0.55	83	< 0.0050		1800			0.43			< 0.025	8.3			0.0059				14		0.16	< 0.050	< 0.050		48.1	8.17		< 250	9.6		< 0.015				20.4	< 0.020	7400	390	19	26.2			0.040
8/28/2019			0.40		0.22	0.45	91	< 0.0050		1400			0.34			< 0.025	4.5			0.0073				12		0.14	< 0.050	0.11		42.3	7.9		< 250	8.8		< 0.015				27.7	< 0.020	5500		6.4	16.0			0.035
12/10/2019			0.40		0.23	0.65	120	< 0.0050		1300			0.44			< 0.025	4.2			0.014				11		0.18	< 0.050	< 0.050		-33.2	8.0		< 250	9.9		< 0.015				17.4	< 0.020	5300		65	55.4			0.044
TANK-EFF																																																
6/16/2000																									0.0085																								
TSE																																																
6/25/1997							196		45.9	387					450				2.75	0.0485	4.34	0.332										6.57		0.27	13.4		22.6		<		362	97.8		< 0					
8/13/1997							30		13.5	224					70				5.48	0.107	2.03	0.135										6.96		0.69	2.45		2.73		22		63	12.5	190	< 0					
TSW																																																
6/25/1997							< 24		48.6	81					480				13.3	0.0262	5.42	1.86										6.47		< 0.2	9.11		15.9		<		279	22.3		< 0					
8/13/1997							9		13.3	61					90				1.06	0.01	1.27	0.0613										6.87		0.27	3.77		2.66		22		59	11.8	21	< 0					
WICKDRAIN																																																
8/8/2001														6300																																			
8/8/2001		69.7		< 0.02	0.0088	0.051		< 0.005	38.4	< 10	5.9	< 5	0.017		250	< 0.025			14.4	0.0075	12.9	0.5			< 0.2	< 0.04						7.42	< 10		8.5	< 0.015	12.8	14.6	21.2		189	3.2	197			< 0.025	0.033

APPENDIX I

TDS/Conductivity Ratio and Cation/Anion Validation

Appendix I
TDS/Conductivity Ratio and Cation/Anion Balance

Well ID	Sample Date	TDS/Conductivity Ratio	Cation/Anion Balance (%)
1008BR2	5/22/2019	1.1	-3.1
1008BR2	8/19/2019	0.54	2.1
1008ER2	5/22/2019	0.54	3.5
1008ER2	8/19/2019	0.54	1.7
101C	5/21/2019	0.53	-3
101C	8/7/2019	0.54	-4.9
101C	11/8/2019	0.74	-0.81
1040B	5/13/2019	0.49	-6.3
1040B	8/28/2019	0.64	-4.9
1040B	12/10/2019	0.59	-5.9
1041B	5/13/2019	0.5	-7.5
1041B	8/20/2019	0.77	-3.1
1041B	12/10/2019	0.37	9.9
104C	6/10/2019	0.46	4
104C	8/7/2019	0.45	-1.7
104C	11/18/2019	0.47	-3.5
104D	6/4/2019	0.39	1.1
104D	8/7/2019	0.47	-1.7
104D	11/18/2019	0.21	-4.3
106CR	5/20/2019	0.56	3.2
106CR	8/8/2019	0.54	-4
106CR	11/12/2019	0.5	2
106DR	5/20/2019	0.58	-0.33
106DR	8/8/2019	0.67	-3.3
106DR	11/12/2019	0.54	-4.4
106WR	5/20/2019	0.52	-0.39
106WR	8/8/2019	0.57	3.7
106WR	11/12/2019	0.6	-1.4
107BR	5/21/2019	0.51	0.26
107BR	8/9/2019	0.62	4
107BR	11/13/2019	0.66	0.23
107CR	5/21/2019	0.45	-1.2
107CR	8/9/2019	0.58	1.5
107CR	11/13/2019	0.69	-0.57
1134B	5/13/2019	0.5	-4.1
1134B	8/27/2019	0.57	-2.1
1134B	11/14/2019	0.71	-5.5
310AW	6/14/2019	0.6	-0.74
310AW	8/20/2019	0.79	1.6
310C	6/13/2019	0.8	11
310C	8/21/2019	0.68	4.4
310C	11/13/2019	0.54	0.97
310D	6/13/2019	0.74	3
310D	8/21/2019	0.4	-0.62
310D	11/13/2019	0.6	-2.4
617A	5/13/2019	0.5	-8.1
617A	8/20/2019	0.42	-1.7
617A	11/18/2019	0.92	-6.5
617C	5/13/2019	0.54	-9.8
617C	8/20/2019	0.64	2.4
617C	11/18/2019	0.5	-3.4
618AR	5/13/2019	0.48	0.46
618AR	8/27/2019	0.51	-2.3
618AR	12/10/2019	0.47	0.27
618CR	5/13/2019	0.33	-6.7
618CR	8/30/2019	0.61	34
618CR	12/10/2019	0.28	-4.4
620A	5/16/2019	0.58	0.6
620A	8/30/2019	0.53	-31
620A	11/7/2019	1.5	17
620C	5/16/2019	0.32	-2.8
620C	8/21/2019	0.68	-3.1
620C	11/7/2019	0.54	-4.2
624B	6/14/2019	0.63	-1.7
624B	8/28/2019	0.63	-1.3
624B	12/10/2019	0.5	-27
626B	6/5/2019	0.3	4.4
626B	8/28/2019	2	-0.85
626B	11/19/2019	0.67	1.6
627A	6/5/2019	0.51	-3.4
627A	8/8/2019	0.51	-8.1
628A	6/5/2019	0.78	7.3
628A	8/8/2019	1.3	-7
628A	11/19/2019	0.3	-20
629B	5/14/2019	0.48	-7.1
629B	8/8/2019	0.44	-28
629B	11/7/2019	0.55	-2.6
629E	5/15/2019	0.38	7.1
629E	8/8/2019	0.48	-0.45
629E	11/7/2019	0.56	1.4
630B	5/16/2019	0.38	-3.3
630B	8/7/2019	0.62	-4.1
630B	11/7/2019	0.59	-2.2

Appendix I
TDS/Conductivity Ratio and Cation/Anion Balance

Well ID	Sample Date	TDS/Conductivity Ratio	Cation/Anion Balance (%)
630E	5/14/2019	0.76	-3.4
630E	8/7/2019	0.55	1.5
630E	11/7/2019	0.26	-1.8
TRANS	6/13/2019	0.29	2.1
TRANS	8/9/2019	0.41	5.8
TRANS	11/19/2019	0.75	1.4
W11-1B	5/16/2019	0.32	1
W11-1B	8/5/2019	0.38	-4.7
W11-1B	12/10/2019	0.6	0.75
W11-1ER	5/21/2019	0.49	-1.2
W11-1ER	8/5/2019	0.46	-2.1
W11-2E	5/20/2019	0.4	2.2
W11-2E	8/7/2019	0.47	-1.6
W11-3E	5/21/2019	0.49	-2.3
W11-3E	8/5/2019	0.52	0.083
W11-3E	11/14/2019	0.47	0.19
W11-4E	5/20/2019	0.5	0.89
W11-4E	8/5/2019	0.46	-3.1
W11-4E	11/8/2019	0.55	6.1
W11-5B	5/20/2019	0.46	1.2
W11-5B	8/5/2019	0.47	-2.1
W11-5B	11/8/2019	0.89	-1.4
W11-5E	5/20/2019	0.46	-0.74
W11-5E	8/5/2019	0.49	2.1
W11-5E	11/8/2019	0.44	-0.73
W11-6E	5/3/2019	0.62	2
W11-6E	8/5/2019	0.52	-3.3
W11-6E	11/19/2019	0.97	26
W12-1B	6/4/2019	0.4	2.3
W12-1B	8/7/2019	0.53	-1.6
W12-1B	11/13/2019	0.67	2.6
W12-1E	11/25/2019	0.59	12
W12-2E	6/4/2019	0.11	65
W12-2E	8/6/2019	-	60
W12-2E	12/19/2019	1.2	56
W12-3E	6/7/2019	0.55	-1.3
W12-3E	8/6/2019	0.39	-1.3
W12-3E	11/20/2019	0.48	-6.7
W12-4B	5/22/2019	0.59	5.1
W12-4B	8/6/2019	0.36	1.7
W12-4B	11/20/2019	0.95	4.6
W12-4E	5/22/2019	0.49	-3.4
W12-4E	8/6/2019	0.46	-7.8
W12-5E	5/21/2019	0.51	-0.45
W12-5E	8/19/2019	0.49	-0.15
W12-5E	12/10/2019	0.48	1.8
W9-1E	6/10/2019	0.39	4.2
W9-1E	8/21/2019	0.49	4
W9-1E	11/18/2019	0.41	-1.8
W9-2E	6/10/2019	0.42	5.4
W9-2E	8/21/2019	0.44	1.3
W9-2E	11/18/2019	0.3	-0.58

Prepared by: ERW
Checked by: DFSC
Reviewed by: APTM

APPENDIX J

Maximum and Minimum Values

Appendix J
WMDSM Crossroads Landfill
Groundwater and Surface Water Maximum and Minimum Values

	Location	Chemical	T/D	Result Count	Min	Max	Result	Unit
Groundwater								
New Minimum May/June 2019	1008BR2	Total Dissolved Solids	T	45	50	181	38	mg/L
	1008ER2	Manganese	T	44	1.27	2.4	1	mg/L
	1008ER2	Sodium	T	44	8.4	29.9	8	mg/L
	1041B	Barium	T	29	0.022	0.692	0.021	mg/L
	106DR	Chloride	T	71	2.6	8.3	2.1	mg/L
	618AR	Manganese	T	45	0.02	2.5	0.017	mg/L
	618CR	Potassium	T	45	2.18	3.9	2.1	mg/L
	630E	Sodium	T	52	4.9	14.6	4.5	mg/L
	W12-2E	pH, field measured	N	53	4.67	8.2	4.41	pH units
	W12-3E	Sodium	T	55	4.6	17.2	4.5	mg/L
	W12-4E	Potassium	T	54	0.68	1.5	0.63	mg/L
New Minimum August 2019	1008BR2	Alkalinity, Total	T	45	51.1	73.9	51	mg/L
	1008BR2	Oxidation-Reduction Potential	N	32	-112	251	-154	millivolts
	101C	Oxidation-Reduction Potential	N	33	-119.6	394	-257.8	millivolts
	104C	Oxidation-Reduction Potential	N	35	-128.9	191.4	-198.9	millivolts
	104D	Oxidation-Reduction Potential	N	35	-147.4	286	-189.8	millivolts
	106CR	Oxidation-Reduction Potential	N	35	-132	417	-160	millivolts
	107CR	Oxidation-Reduction Potential	N	34	-63	385	-82.6	millivolts
	618CR	Potassium	T	46	2.1	3.9	1	mg/L
	620A	Magnesium	T	85	3.3	21.2	2.7	mg/L
	TRANS	Oxidation-Reduction Potential	N	36	-81.2	238.1	-179.1	millivolts
	W11-2E	Oxidation-Reduction Potential	N	34	-32.2	394	-172.3	millivolts
	W11-3E	Oxidation-Reduction Potential	N	34	-25.3	410	-146.5	millivolts
	W11-6E	Oxidation-Reduction Potential	N	33	5	291.3	-83.6	millivolts
	W12-1B	Calcium	T	56	28	35.8	26	mg/L
	W12-1B	Magnesium	T	56	5.2	7.2	4.9	mg/L
	W12-1B	Potassium	T	56	4.1	5.5	3.7	mg/L
New Minimum November 2019	1008ER2	Magnesium	T	46	36.6	57.8	36	mg/L
	1041B	Oxidation-Reduction Potential	N	35	-54.6	264	-89.3	millivolts
	617C	Oxidation-Reduction Potential	N	36	-96	584	-141.7	millivolts
	624B	Oxidation-Reduction Potential	N	36	-58.1	409	-167.4	millivolts
	626B	Oxidation-Reduction Potential	N	36	-102	256	-106.5	millivolts
	628A	Oxidation-Reduction Potential	N	36	-35	348.3	-122.2	millivolts
	629B	Oxidation-Reduction Potential	N	38	-60.1	472	-170.5	millivolts
	629E	Oxidation-Reduction Potential	N	37	-31.8	475	-77.2	millivolts
	630B	Oxidation-Reduction Potential	N	38	-89.1	355	-163.7	millivolts
	630E	Oxidation-Reduction Potential	N	38	0	273	-65.1	millivolts
	630E	Total Dissolved Solids	T	54	56	143	47	mg/L
	W11-1B	Oxidation-Reduction Potential	N	34	-108.5	416	-195	millivolts
	W11-4E	Oxidation-Reduction Potential	N	35	-86.7	410	-106.7	millivolts
	W11-5B	Oxidation-Reduction Potential	N	34	-121.4	302	-159.7	millivolts
	W11-5E	Oxidation-Reduction Potential	N	34	-114.9	349	-122.3	millivolts
	W11-6E	Oxidation-Reduction Potential	N	34	-83.6	291.3	-150.1	millivolts
	W11-6E	Nitrate	T	49	0.11	1.4	0.05	mg/L
	W12-2E	Calcium	T	56	0.81	1.3	0.8	mg/L
New Maximum May/June 2019	1008BR2	Chemical Oxygen Demand	T	42	10	13.5	39	mg/L
	104D	Nitrate	T	47	0.05	0.21	0.22	mg/L
	106DR	Nitrate	T	47	0.05	0.092	0.12	mg/L
	107BR	Chloride	T	82	0.5	12.8	35	mg/L
	1134B	Total Suspended Solids	T	70	4	17	19	mg/L
	310C	Calcium	T	83	2	24.5	25	mg/L
	618AR	Total Suspended Solids	T	43	4	4.8	11	mg/L
	618CR	Barium	T	18	0.01	0.027	0.028	mg/L
	627A	Sulfate	T	64	5	31.5	33	mg/L
	W11-3E	Nitrate	T	49	0.05	0.14	0.29	mg/L
	W11-4E	Specific Conductance	N	60	100	533	557	umhos/cm
New Maximum August 2019	1008ER2	pH, field measured	N	43	5.53	7.25	7.28	pH units
	106DR	Total Suspended Solids	T	71	4	9	13	mg/L
	107BR	Calcium	T	85	2	156	160	mg/L
	107BR	Chloride	T	83	1	35	78	mg/L
	107BR	Specific Conductance	N	82	0	758	886	umhos/cm
	107CR	Total Suspended Solids	T	79	4	12	21	mg/L
	107CR	Turbidity, field measured	N	72	0	5.3	5.7	ntu
	310AW	Temperature	N	80	0	20.5	21.8	deg c
	617C	Magnesium	T	78	1.19	14	15	mg/L
	618CR	Calcium	T	46	12	15	18	mg/L
	618CR	Magnesium	T	46	2.5	3	19	mg/L
	618CR	Turbidity, field measured	N	41	0	3.8	4.8	ntu
	620A	Arsenic	T	66	0.009	0.009	0.016	mg/L
	628A	Total Dissolved Solids	T	66	12	138	210	mg/L
	629B	Chloride	T	53	0.5	3	8.7	mg/L
	629B	Sulfate	T	53	10.7	22.9	28	mg/L
	W11-3E	Turbidity, field measured	N	59	0	3.5	5.2	ntu
	W11-4E	Specific Conductance	N	61	100	557	563	umhos/cm
	W11-4E	Total Dissolved Solids	T	63	113	304	380	mg/L
	W11-5B	Total Dissolved Solids	T	62	32	161	470	mg/L
	W11-6E	Nitrate	T	48	0.11	1.1	1.4	mg/L
	W12-3E	pH, field measured	N	55	4.39	7.44	7.68	pH units

Appendix J
WMDSM Crossroads Landfill
Groundwater and Surface Water Maximum and Minimum Values

	Location	Chemical	T/D	Result Count	Min	Max	Result	Unit
New Maximum November 2019	310AW	Dissolved Oxygen	N	58	0	11.9	12.9	mg/L
	618AR	Dissolved Oxygen	N	41	0.1	9.9	10	mg/L
	628A	Alkalinity, Total	T	66	5	88.2	110	mg/L
	628A	Nitrate	T	47	0	0.04	0.93	mg/L
	628A	Specific Conductance	N	66	0	222	536	umhos/cm
	W11-2E	Chloride	T	65	4.2	13	14	mg/L
	W11-3E	Dissolved Oxygen	N	60	0.1	14	14.6	mg/L
	W11-4E	Calcium	T	64	12.4	45	47	mg/L
	W11-4E	Magnesium	T	64	8.3	38	40	mg/L
	W11-5E	Calcium	T	65	1.7	17	18	mg/L
	W12-1E	Aluminum	T	16	0.25	1.7	2.7	mg/L
	W12-1E	Specific Conductance	N	23	26	148	335	umhos/cm
	W12-1E	Total Dissolved Solids	T	26	25	133	170	mg/L
	W12-1E	Turbidity, Field Measured	N	21	0	57.3	61.1	ntu
	W12-2E	Total Dissolved Solids	T	57	5	52	160	mg/L
	W12-4B	Total Dissolved Solids	T	57	5	141	150	mg/L
	W12-5E	Iron	T	54	0.03	0.03	0.038	mg/L
	W9-1E	Nitrate	T	49	0.05	0.1	0.43	mg/L
	W9-2E	Chloride	T	58	0.5	3.2	3.3	mg/L
Surface Water								
New Minimum May/June 2019	SW-B	Potassium	T	65	0.64	3.2	0.57	mg/L
New Minimim August 2019	SW-801	Chloride	T	48	0.77	7.3	0.62	mg/L
New Minimum November 2019	SW-C	Dissolved Oxygen	N	51	3.2	13.9	2.4	mg/L
New Maximum May/June 2019	SW-101	Flow Rate	N	8	0	2.94	5	ft/sec
	SW-102	Chloride	T	53	1.4	23	26	mg/L
	SW-102	Sodium	T	60	2.7	11.3	13	mg/L
	SW-204	Flow Rate	N	7	0	1.18	2	ft/sec
	SW-B	Flow Rate	N	8	0	1	3	ft/sec
New Maximum August 2019	SW-101	Chemical Oxygen Demand	T	75	2	89	90	mg/L
	SW-A	Alkalinity, Total	T	40	0	108	140	mg/L
	SW-A	Ammonia	T	40	0	0.34	0.41	mg/L
	SW-A	Nitrate	T	39	0	0.4	0.85	mg/L
	SW-A	Specific Conductance	N	41	29	248	276	umhos/cm
	SW-A	Total Dissolved Solids	T	42	28	180	200	mg/L
	SW-B	Chemical Oxygen Demand	T	66	0	56	64	mg/L
	SW-B	Total Organic Carbon	T	67	1.6	17.3	28	mg/L
	SW-C	Chemical Oxygen Demand	T	57	0	103	120	mg/L
	SW-C	Total Dissolved Solids	T	58	0	103	120	mg/L
	SW-C	Total Organic Carbon	T	58	3.5	27.6	55	mg/L
New Maximum November 2019	SW-101	Chloride	T	65	3.7	13	15	mg/L
	SW-102	Dissolved Oxygen	N	44	2.7	13.2	14.8	mg/L
	SW-9	Iron	T	79	0.14	4.7	37	mg/L
	SW-9	Magnesium	T	79	0.81	6.4	10	mg/L
	SW-9	Turbidity, Field Measured	N	58	0	24.3	305	ntu
	SW-C	Chloride	T	50	1.8	8.6	10	mg/L

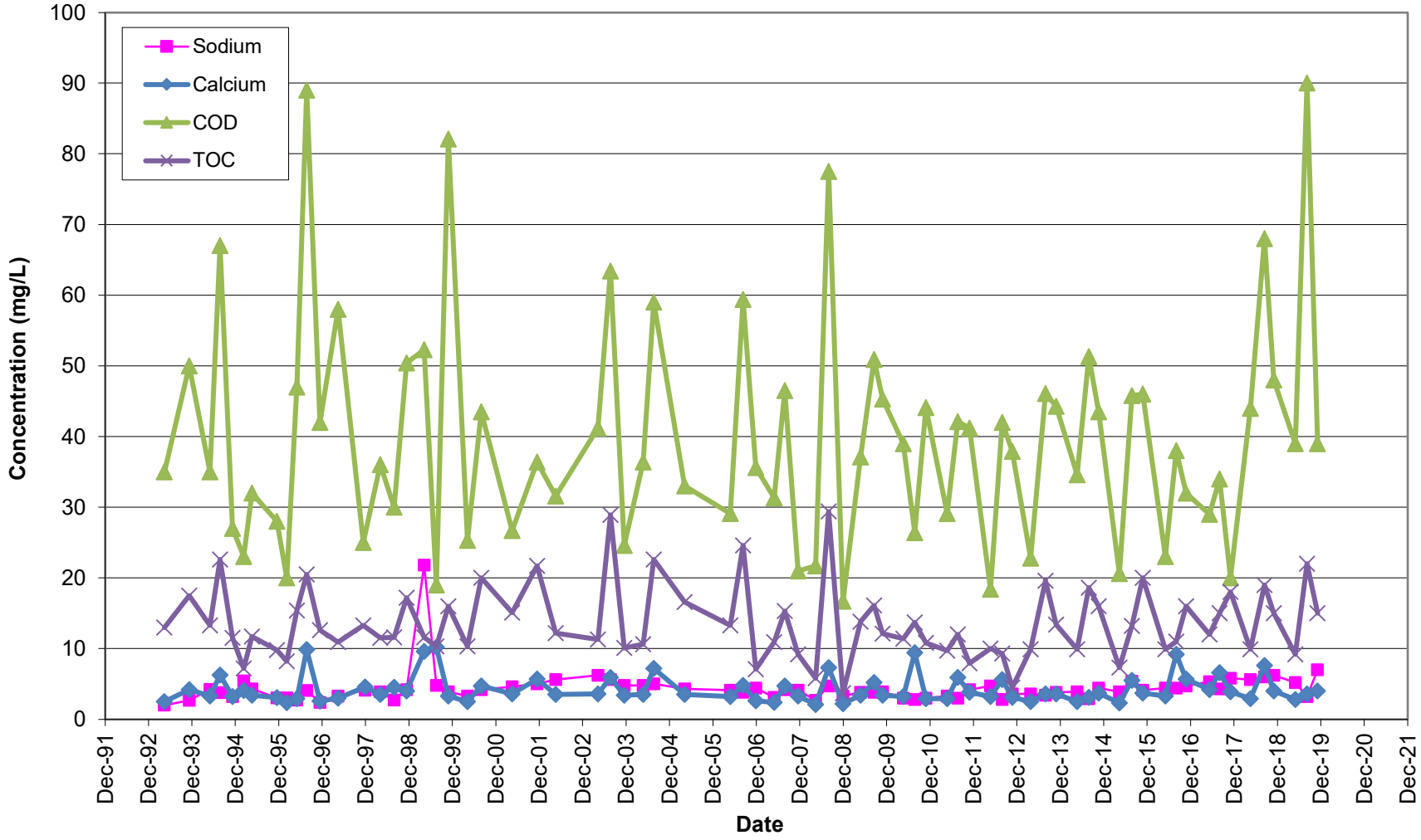
Notes:
T/D= Total or dissolved fraction
T= total
D= dissolved
min= historical minimum
max= historical maximum
mg/L= milligrams per liter
umhos/cm= micromhos per centimeter
ft/sec= feet per second
ntu= Nephelometric Turbidity unit

Prepared by: AD
Checked by: DFSC
Reviewed by: APTM

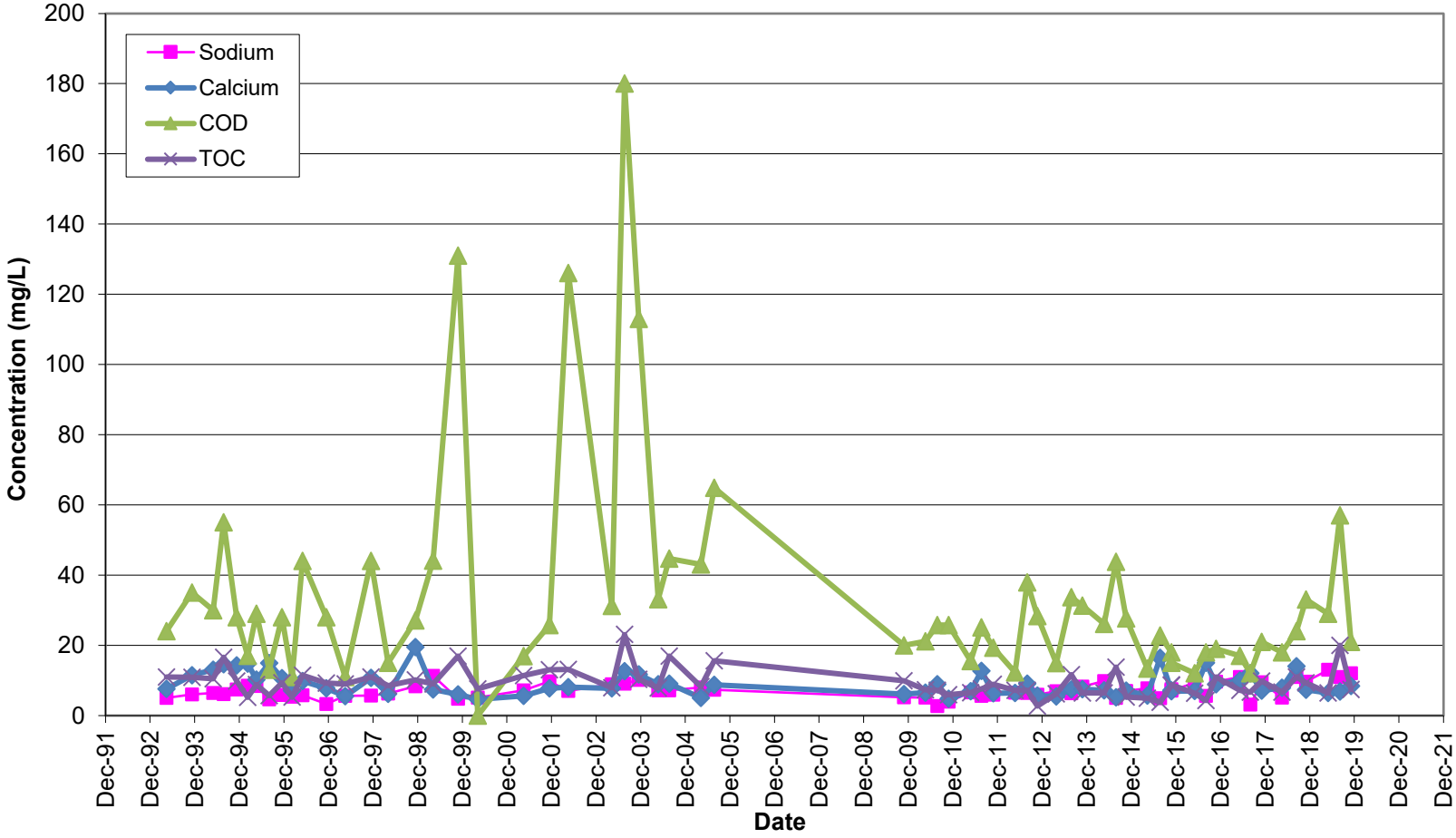
APPENDIX K

Time Series Trend Analysis Plots

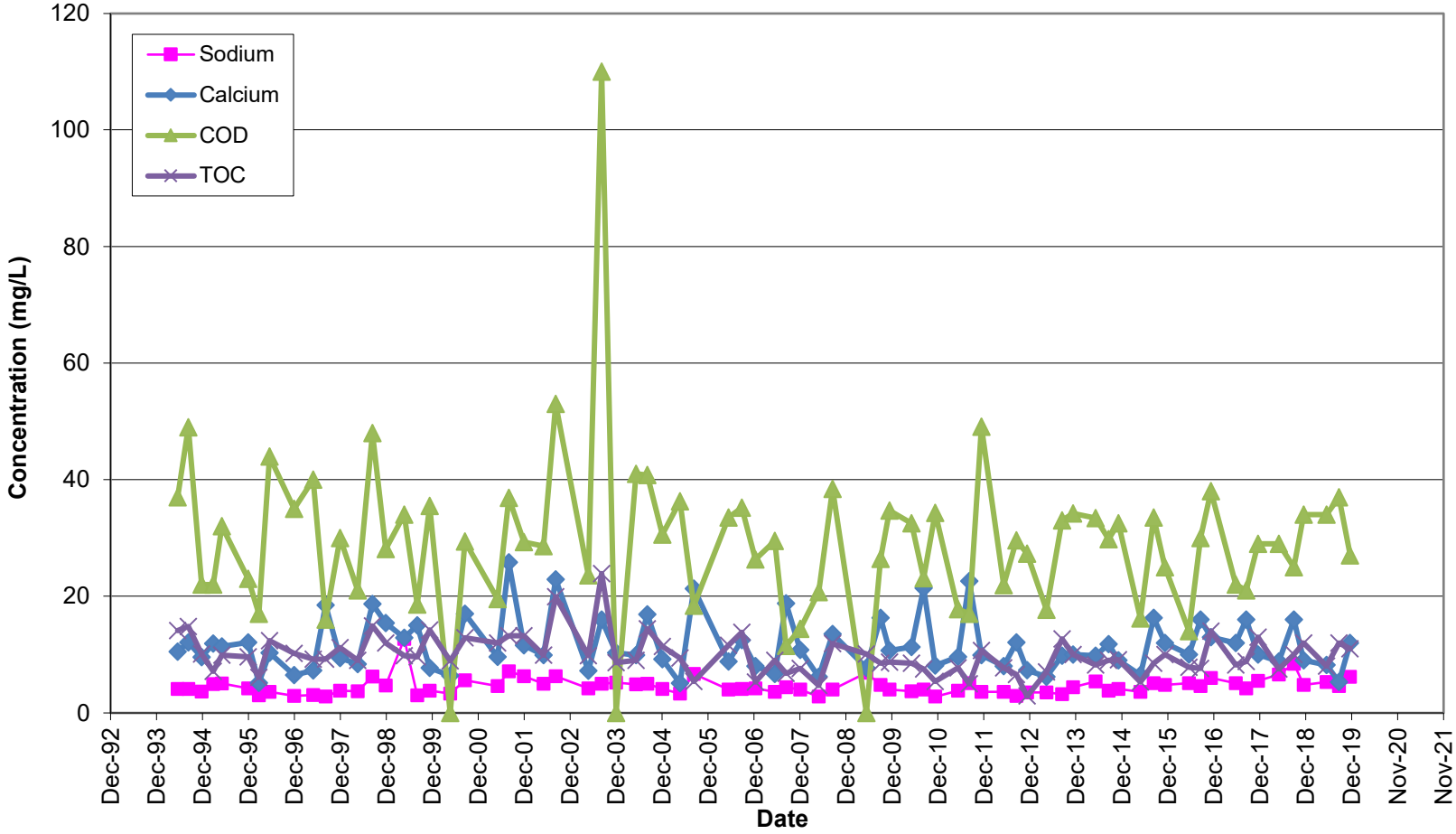
SW-101 Concentration vs. Time



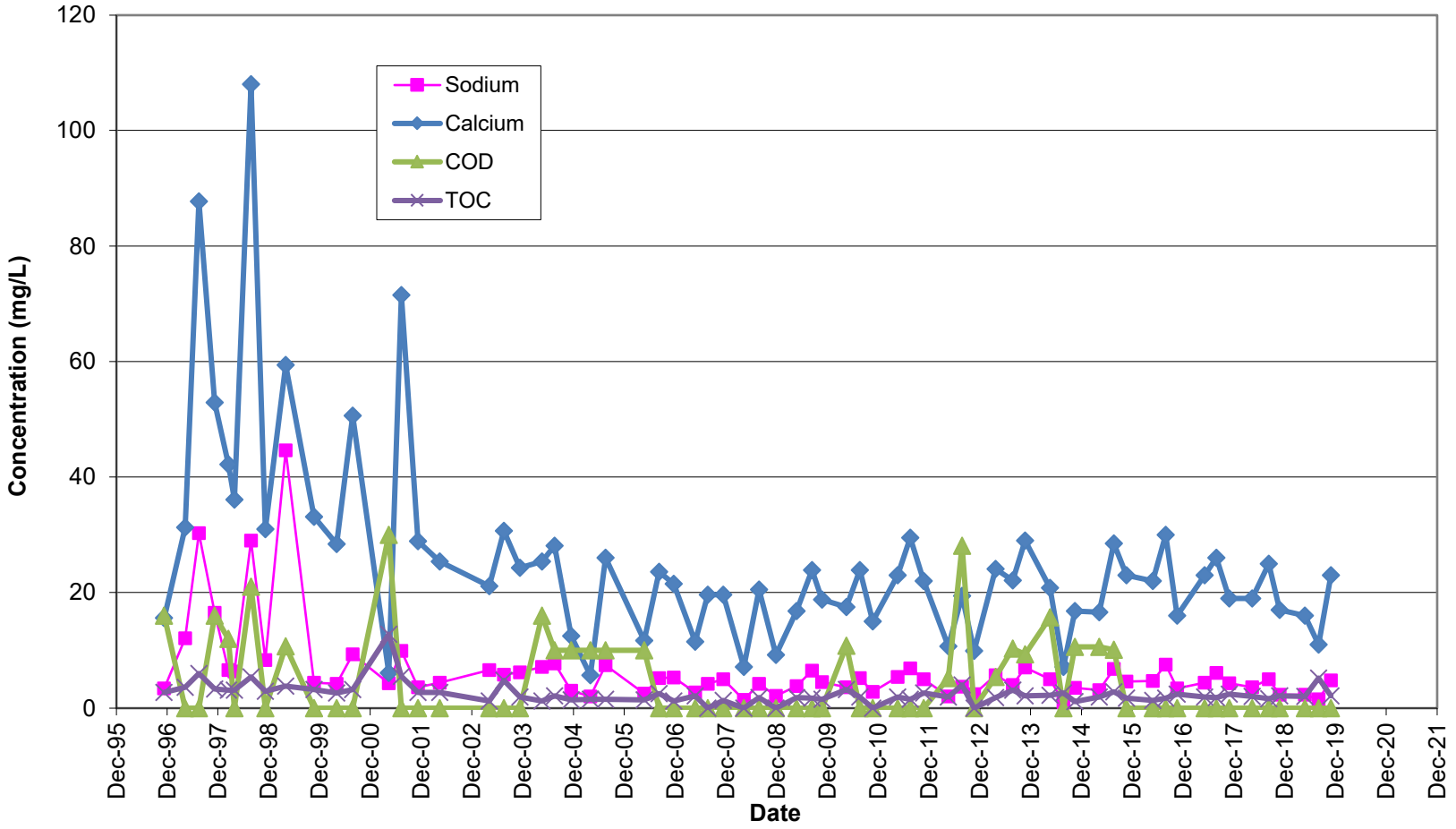
SW-102 Concentration vs. Time



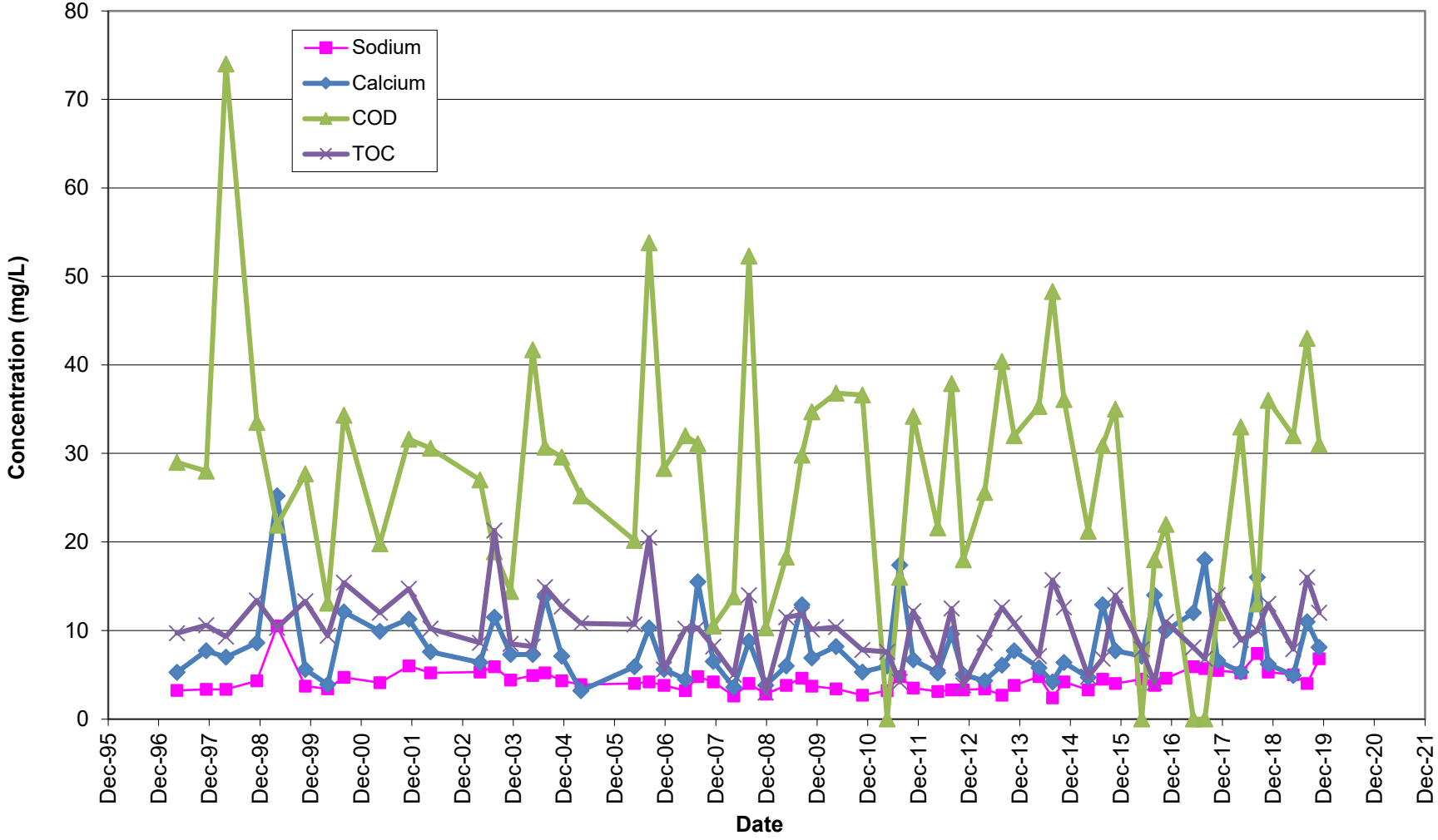
SW-201 Concentration vs. Time



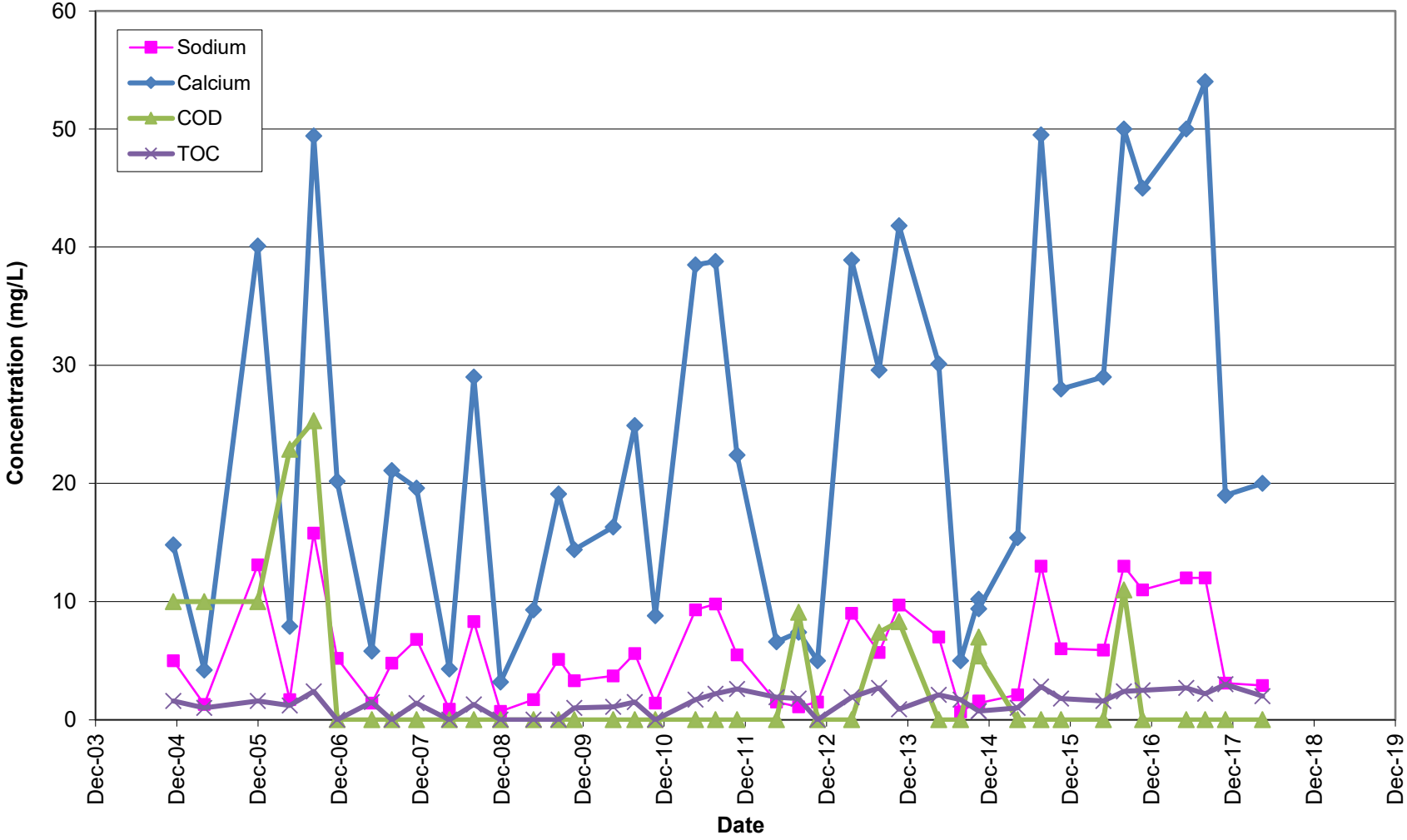
SW-203 Concentration vs. Time



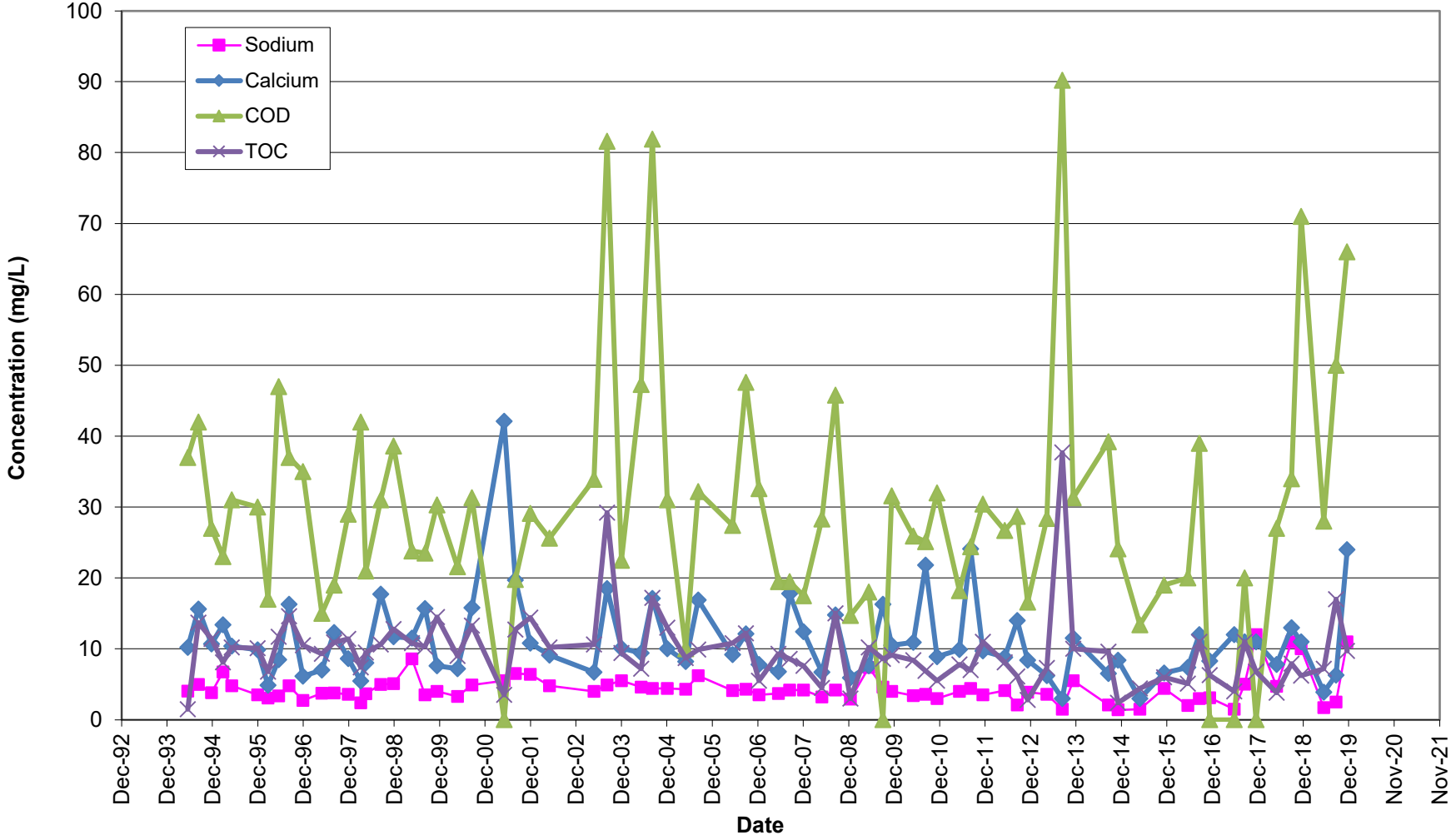
SW-204 Concentration vs. Time



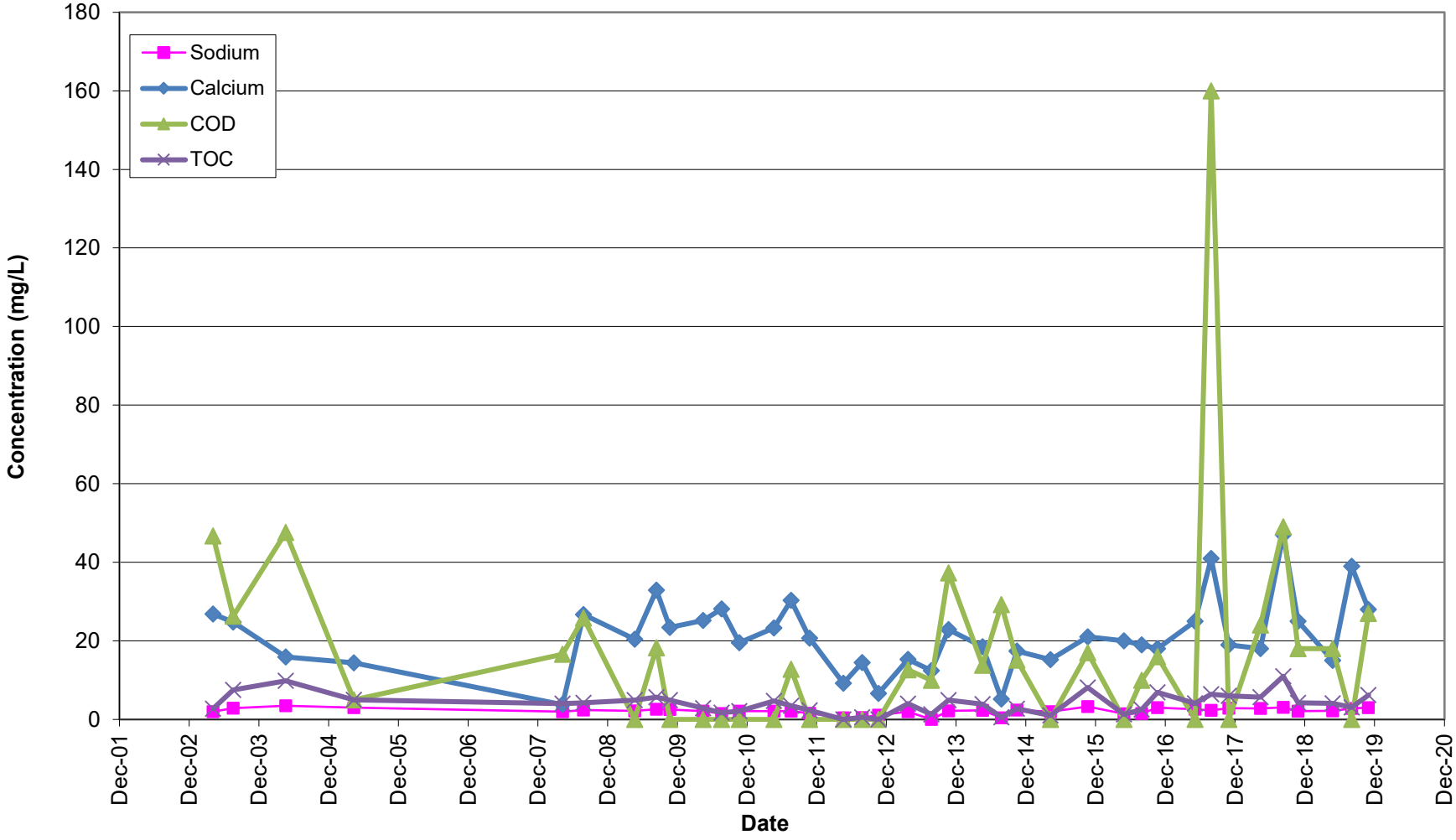
SW-801 Concentration vs. Time



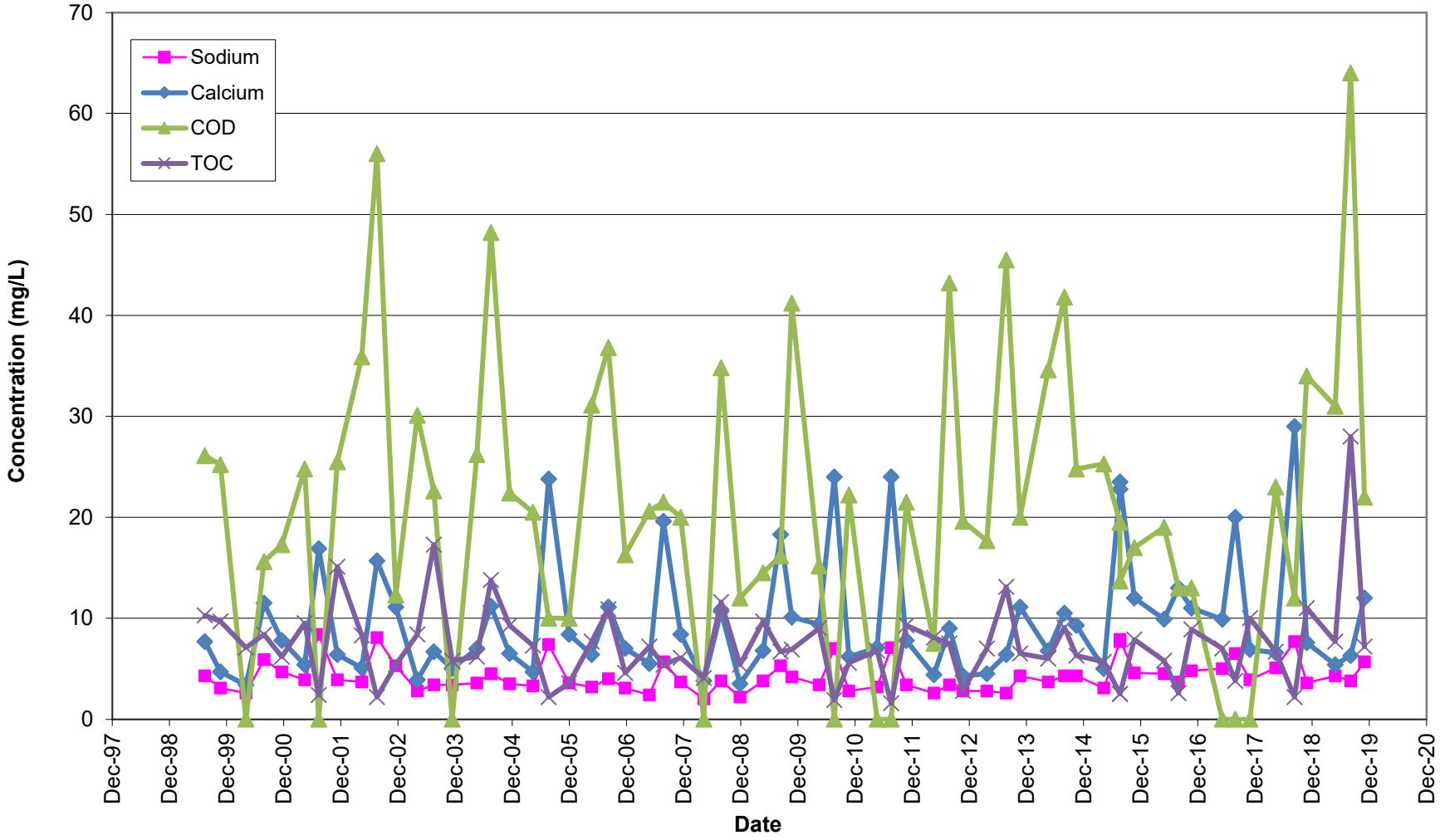
SW-9 Concentration vs. Time



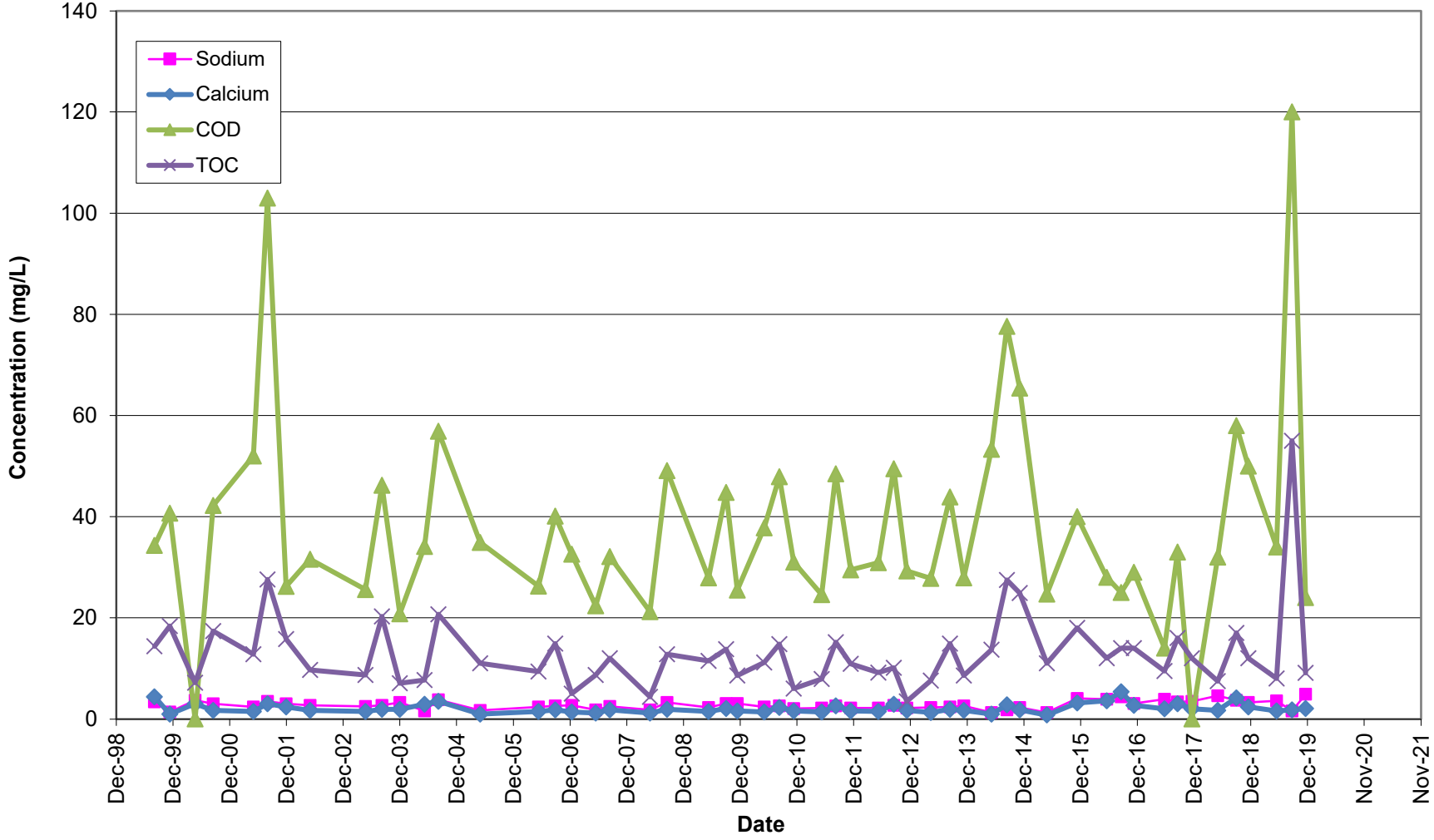
SW-A Concentration vs. Time



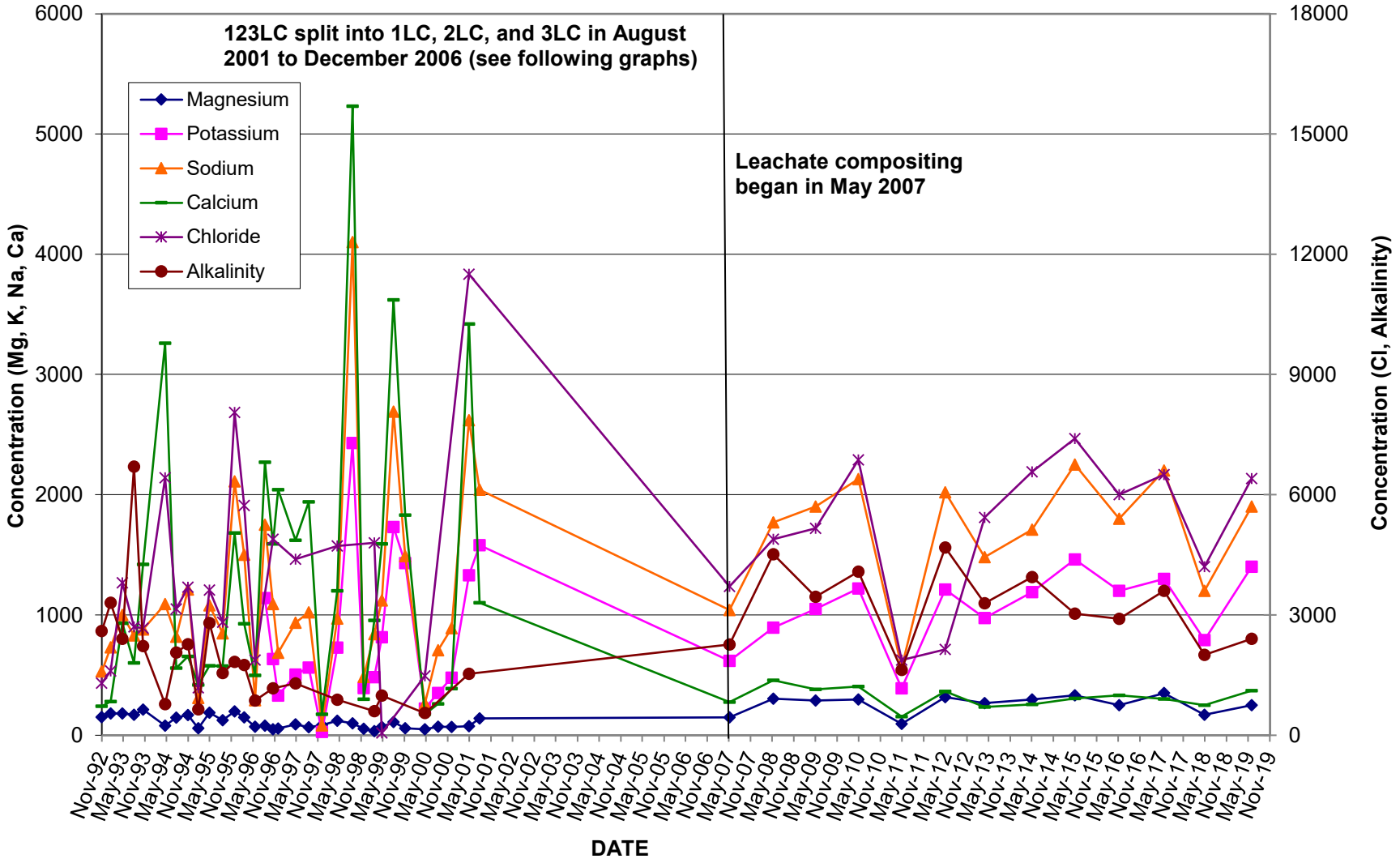
SW-B Concentration vs. Time



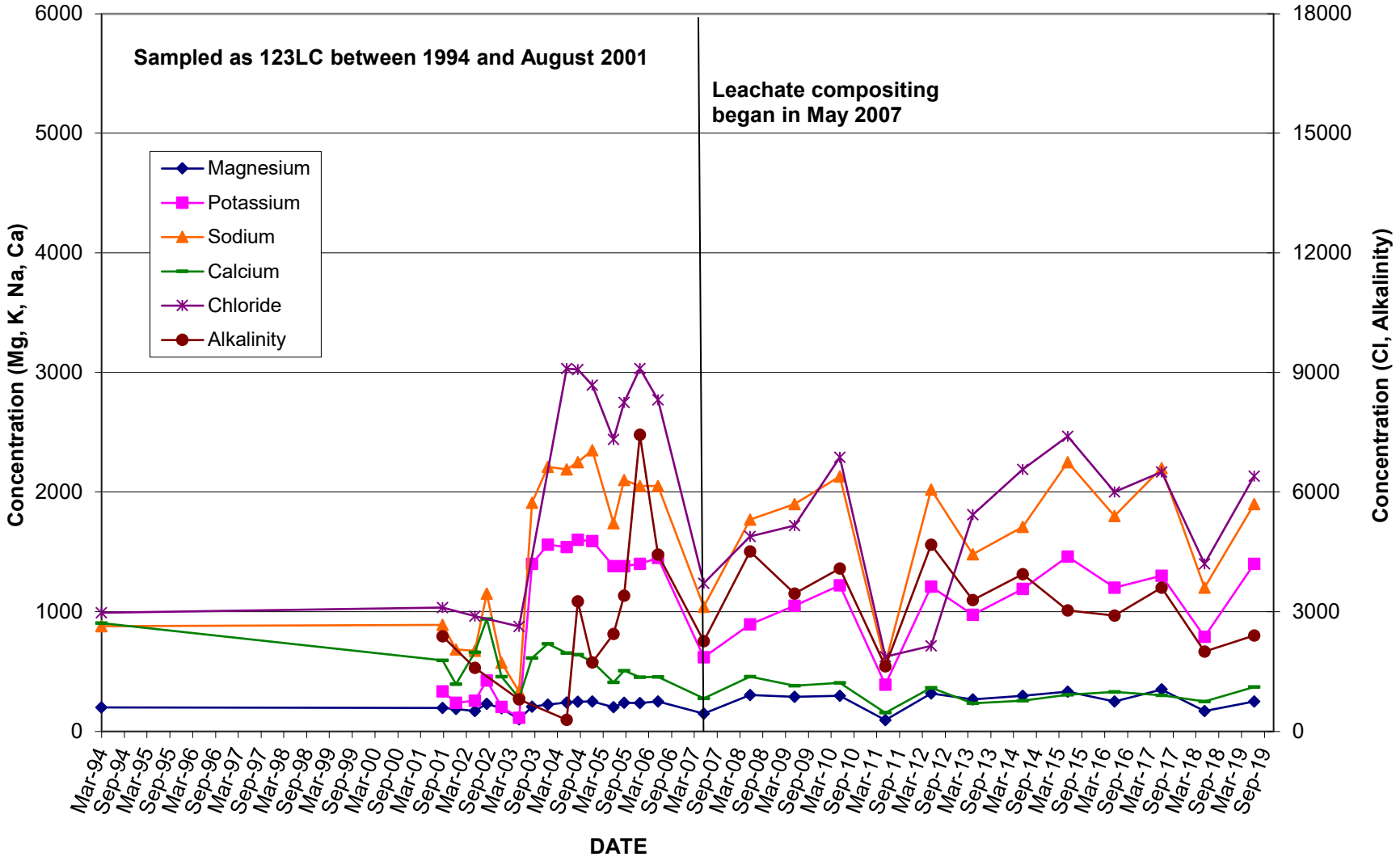
SW-C Concentration vs. Time



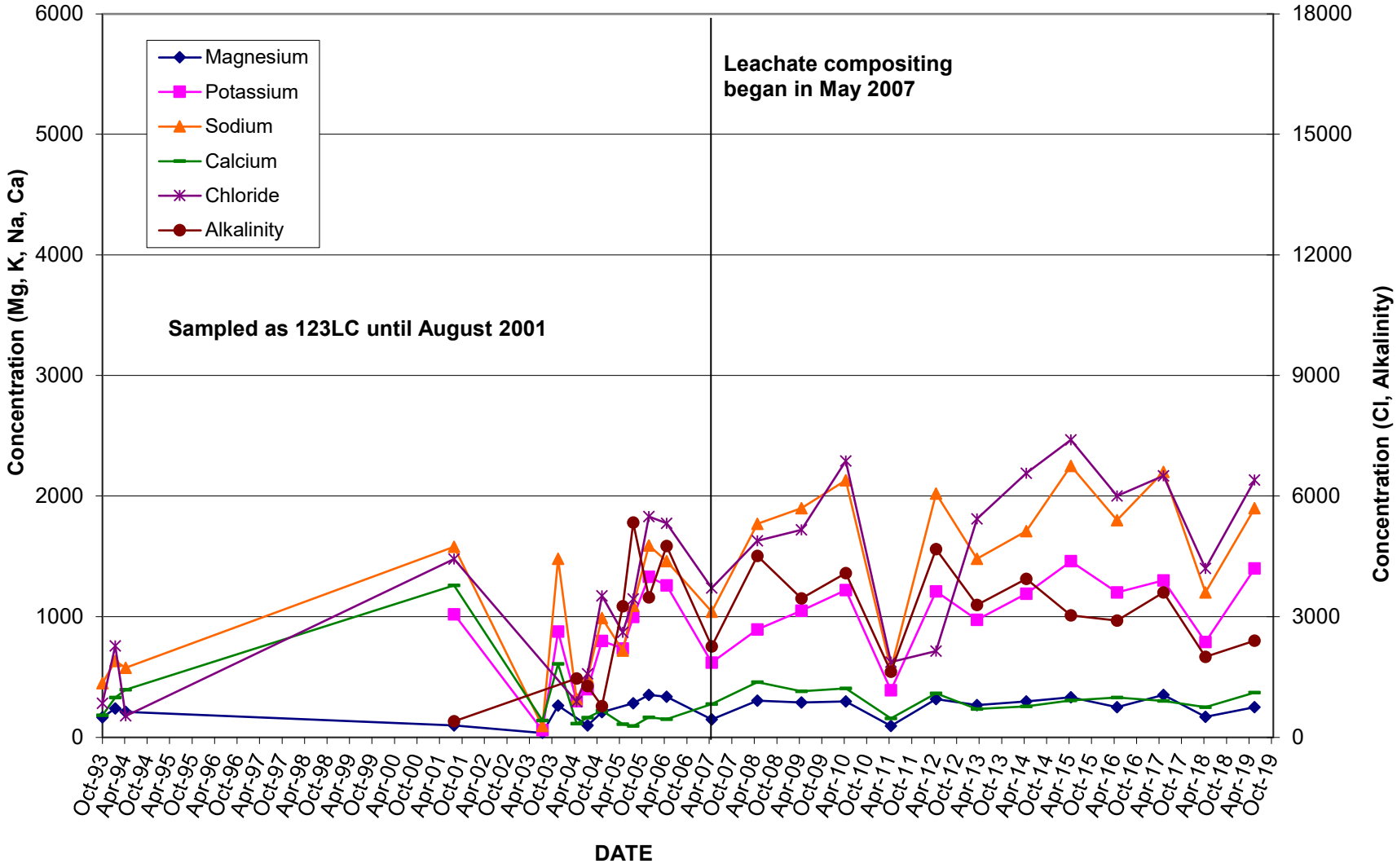
123LC CONCENTRATION (PPM) VS TIME



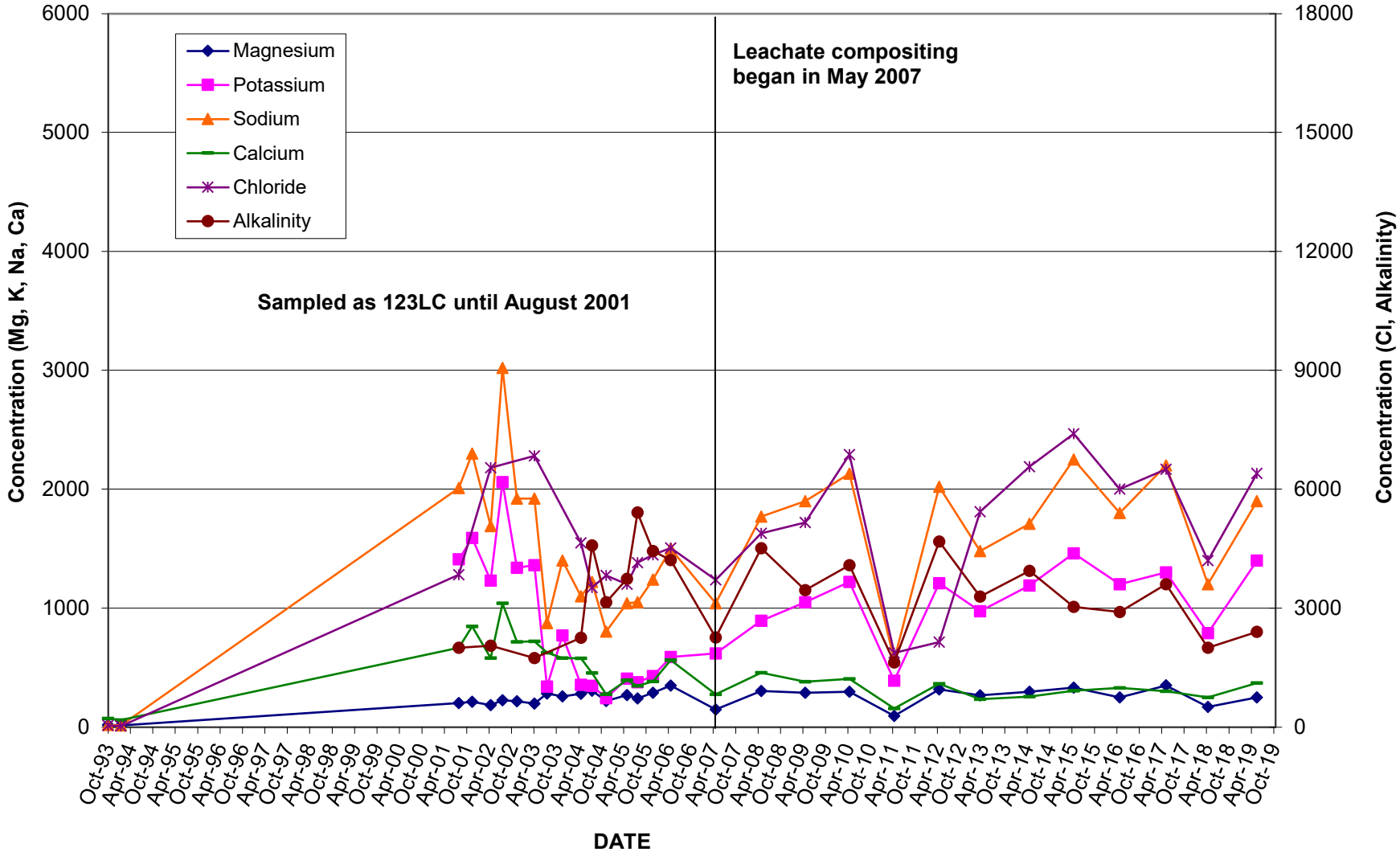
1LC CONCENTRATION (PPM) VS TIME



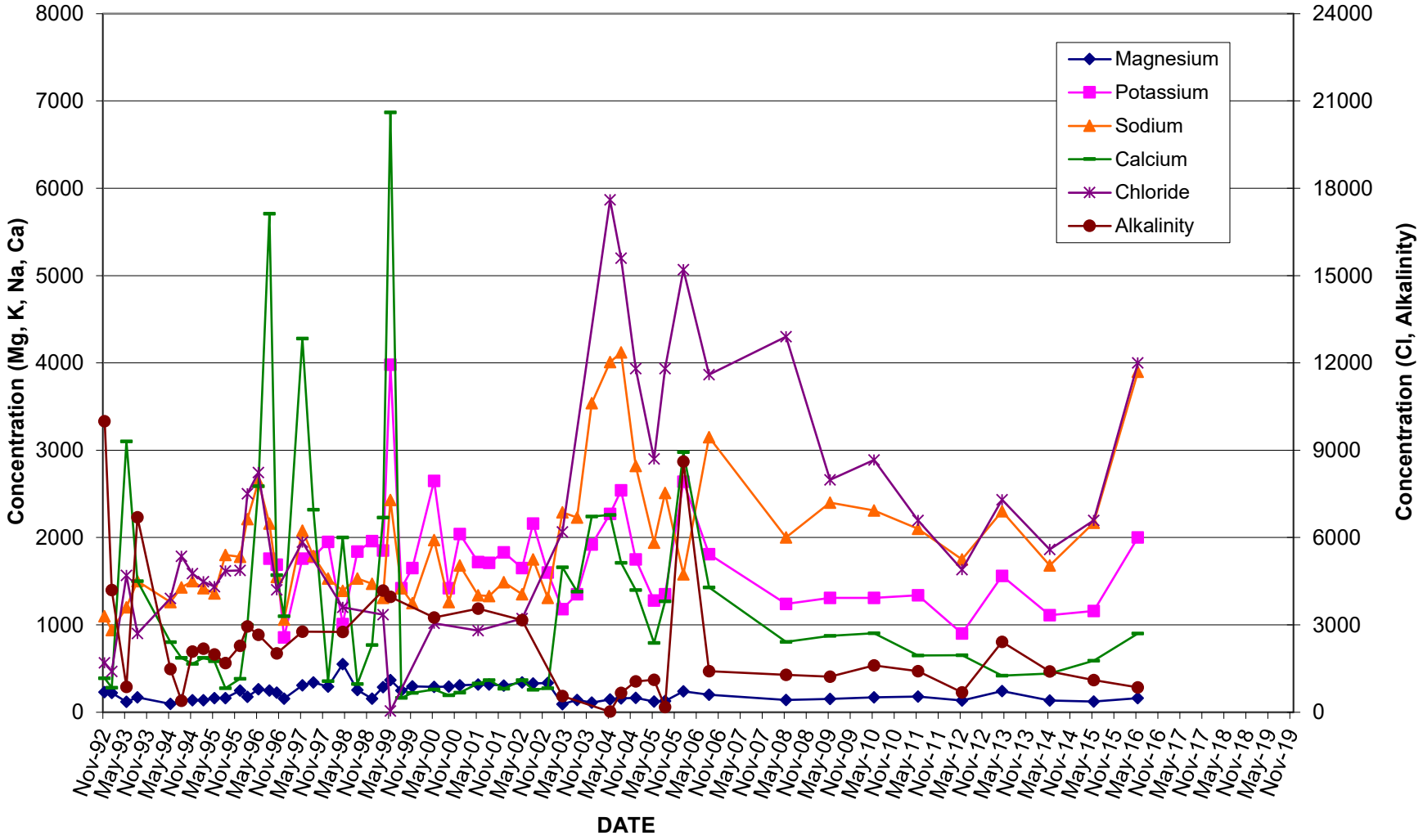
2LC CONCENTRATION (PPM) VS TIME



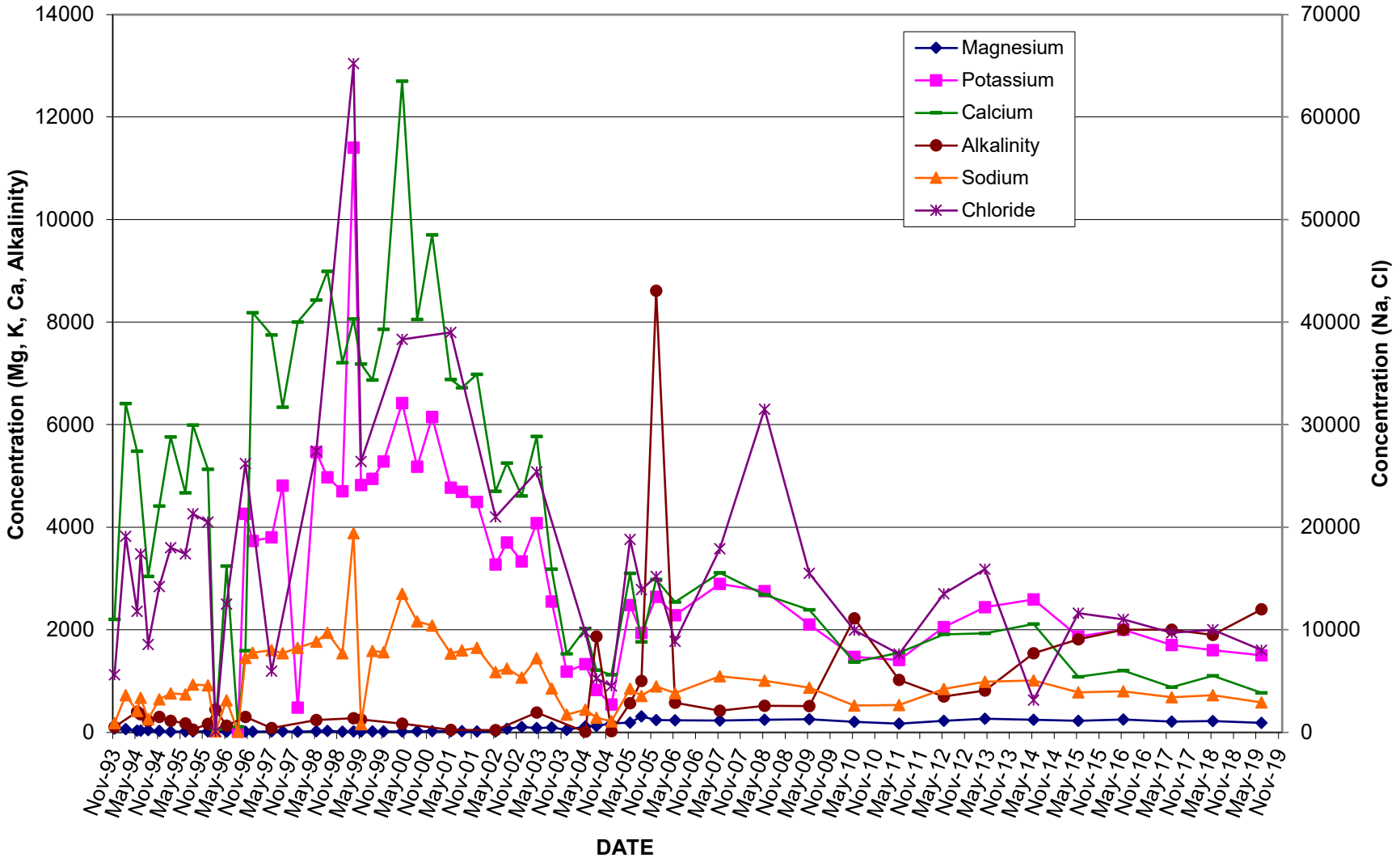
3LC CONCENTRATION (PPM) VS TIME



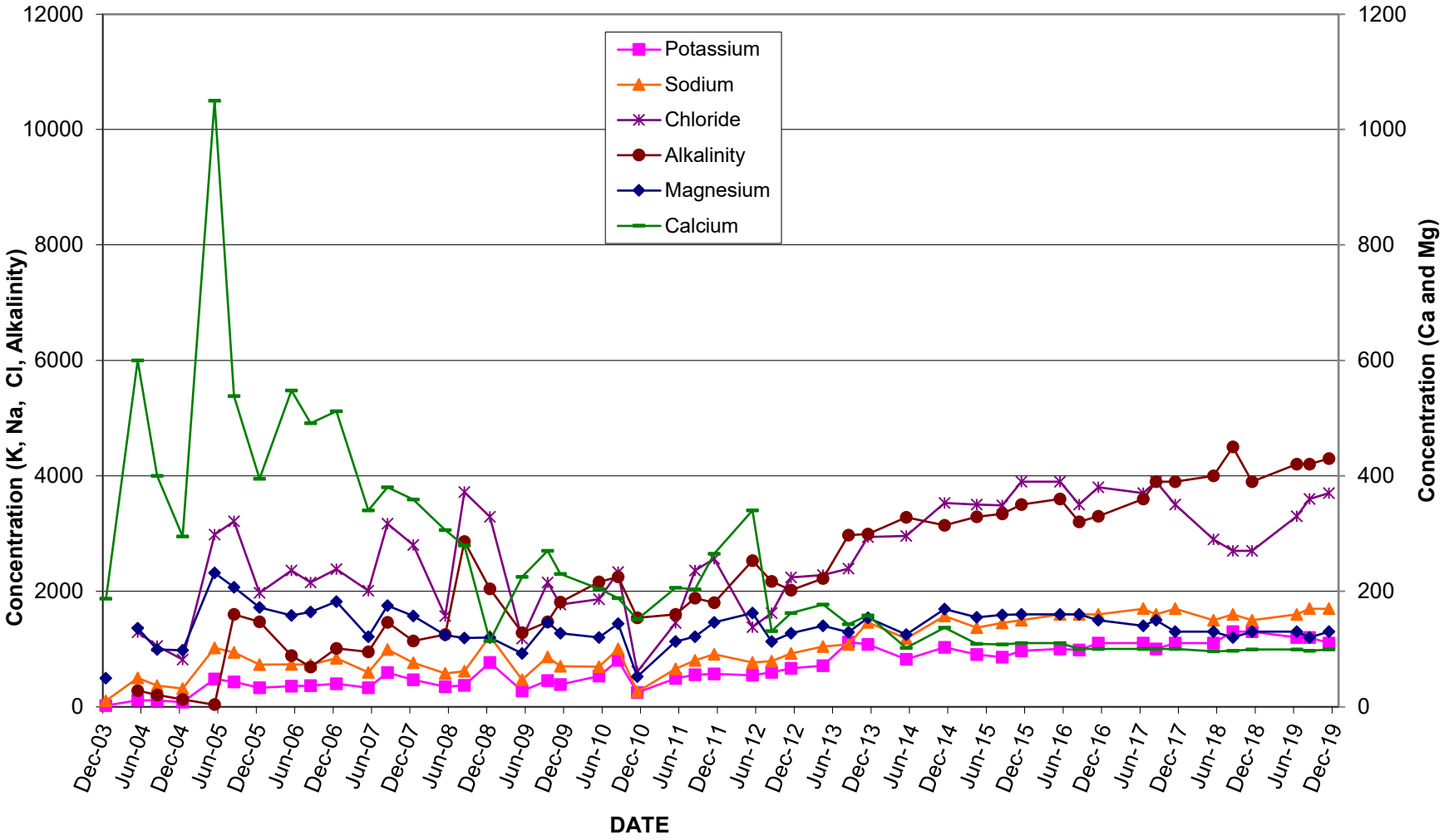
45LC CONCENTRATION (PPM) VS TIME



7LC CONCENTRATION (PPM) VS TIME



8ALC CONCENTRATION (PPM) VS TIME



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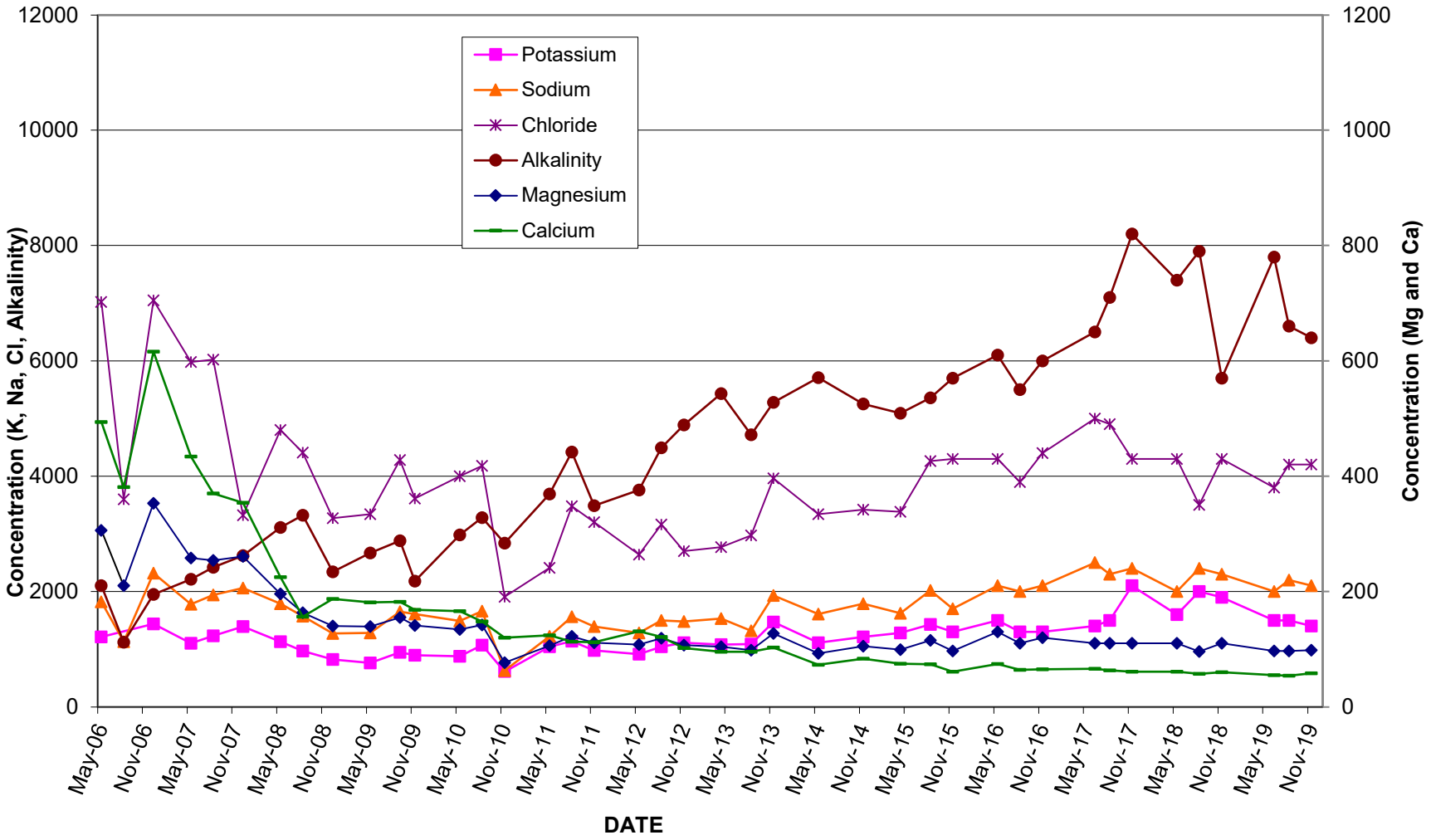

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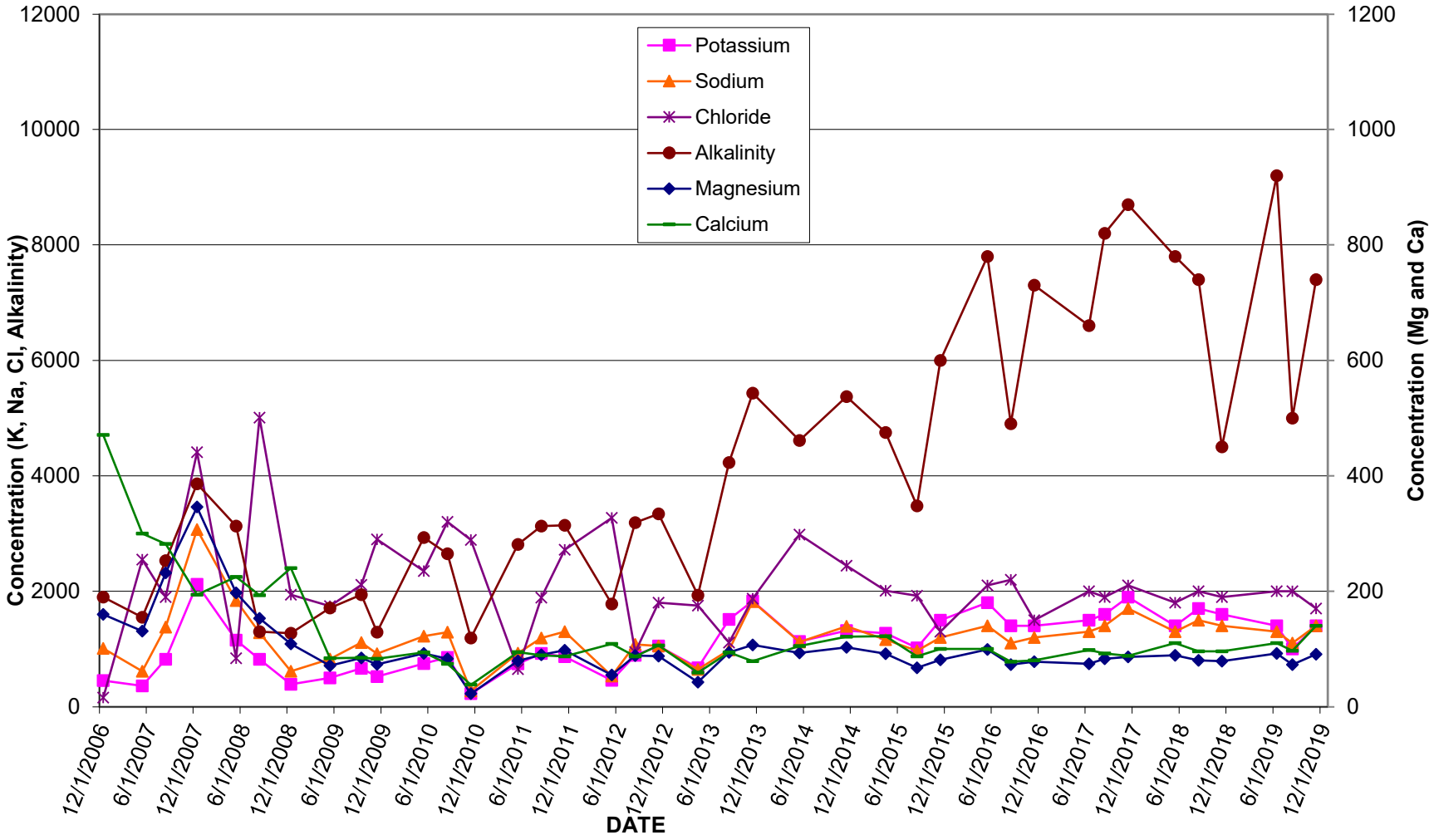
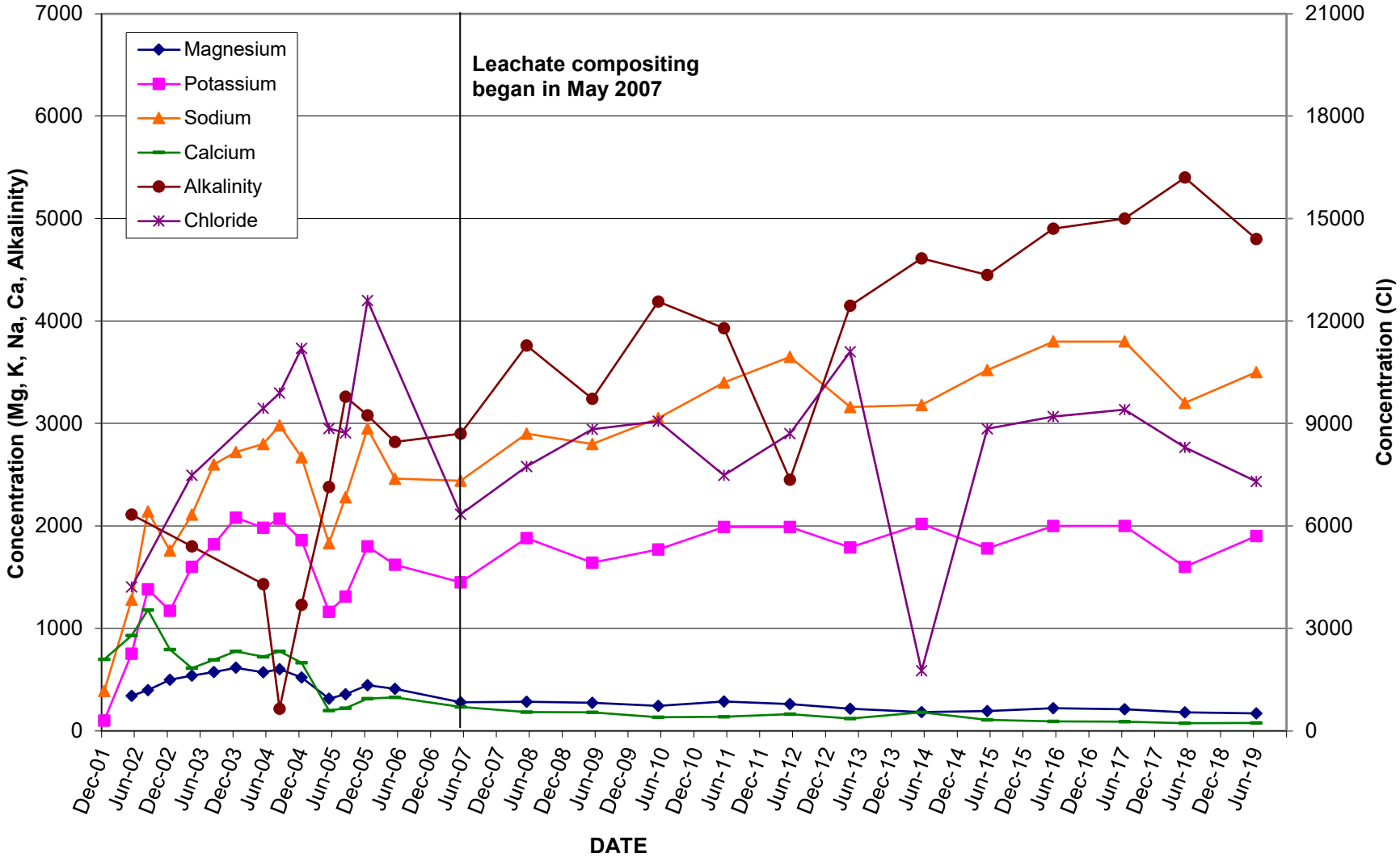
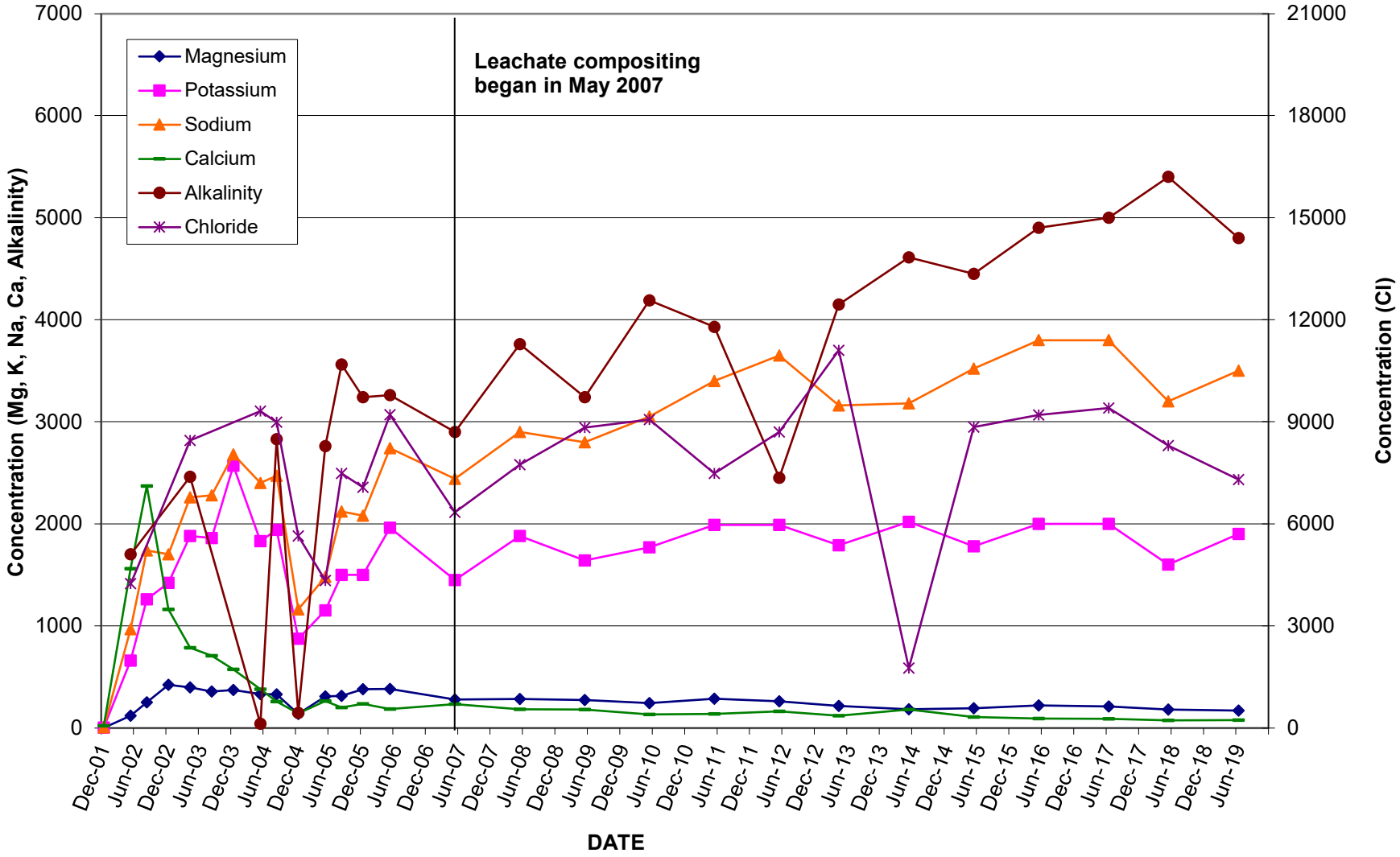


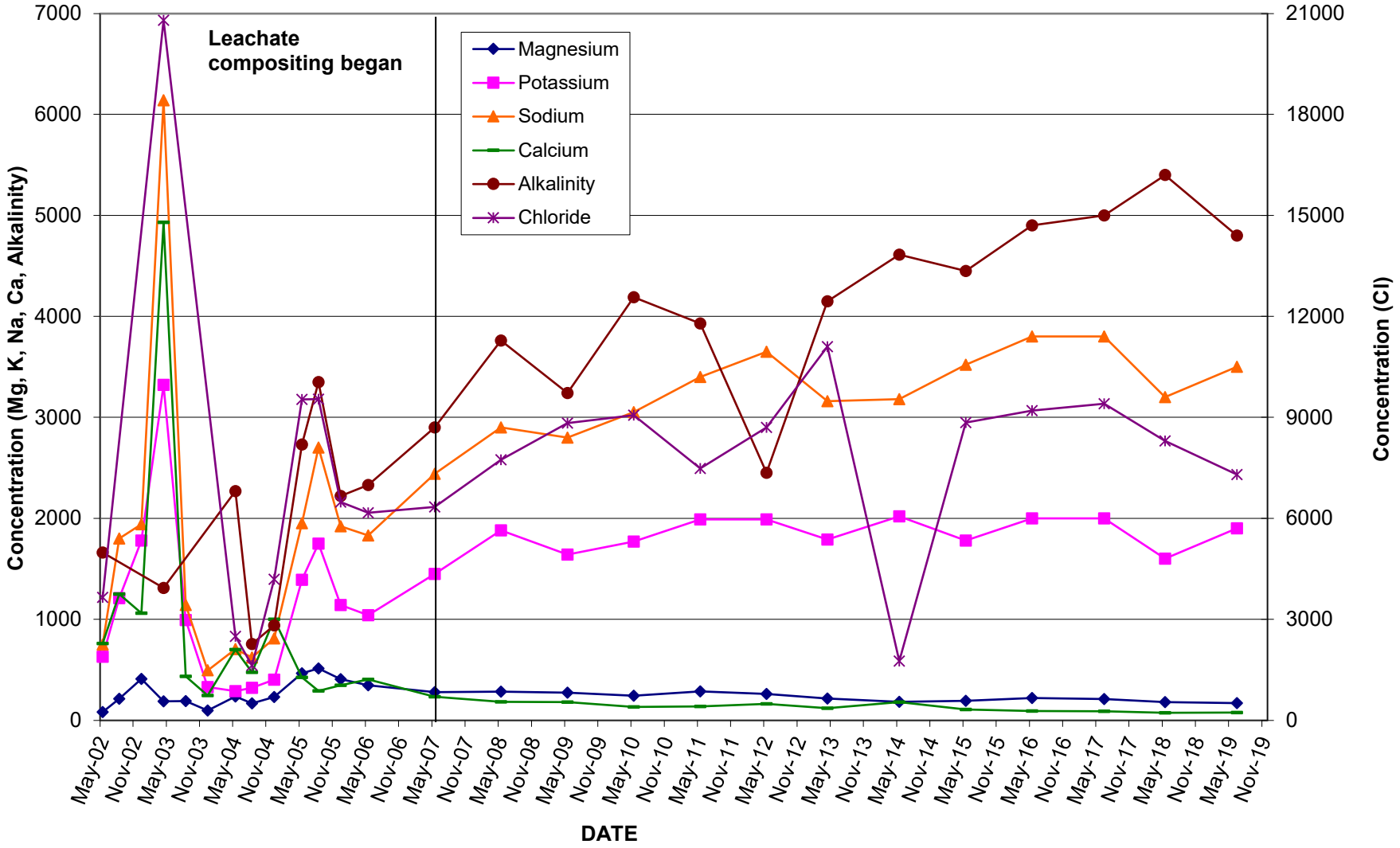
9ALC CONCENTRATION (PPM) VS TIME



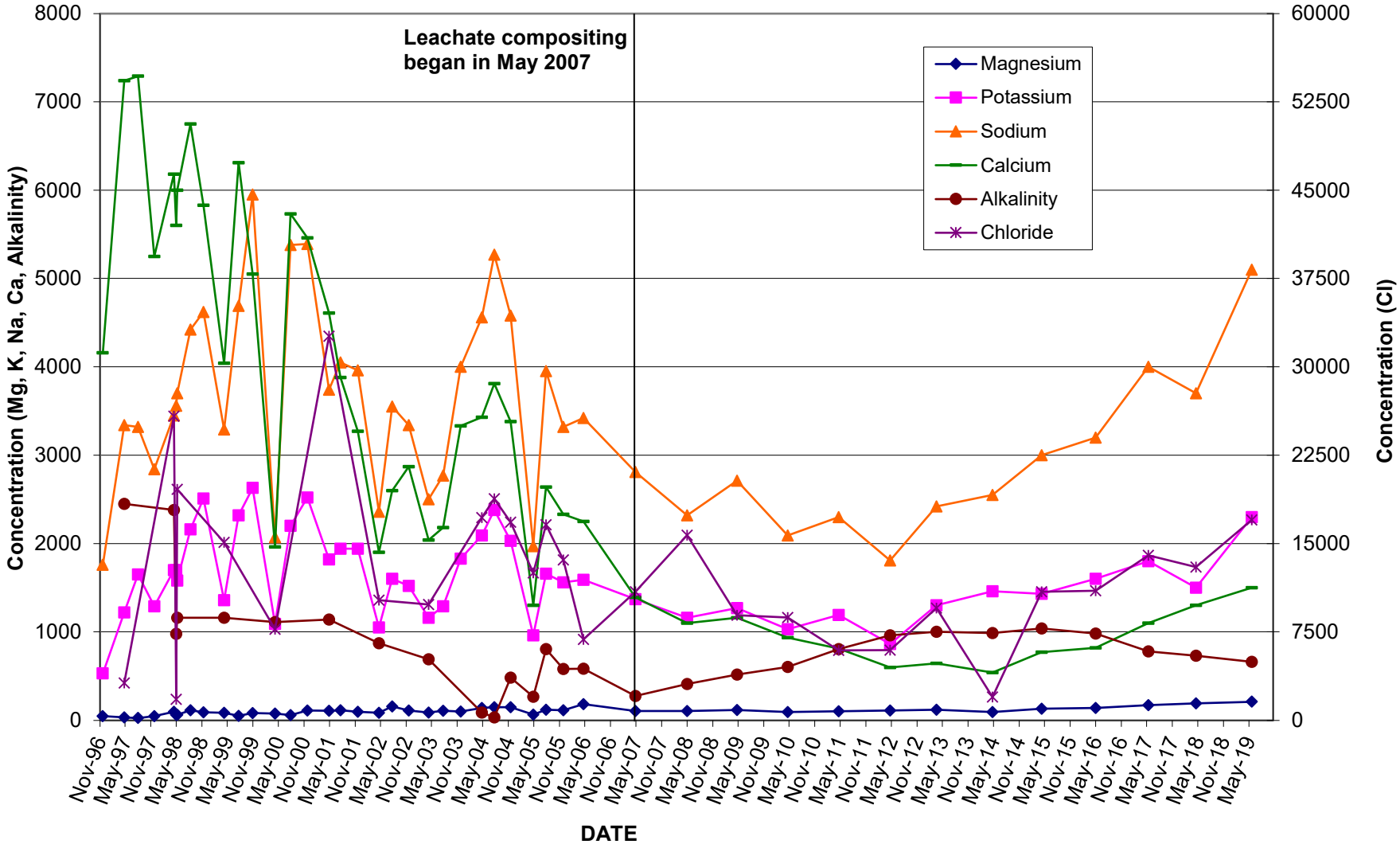
9BLC CONCENTRATION (PPM) VS TIME



9CLC CONCENTRATION (PPM) VS TIME



10ALC CONCENTRATION (PPM) VS TIME



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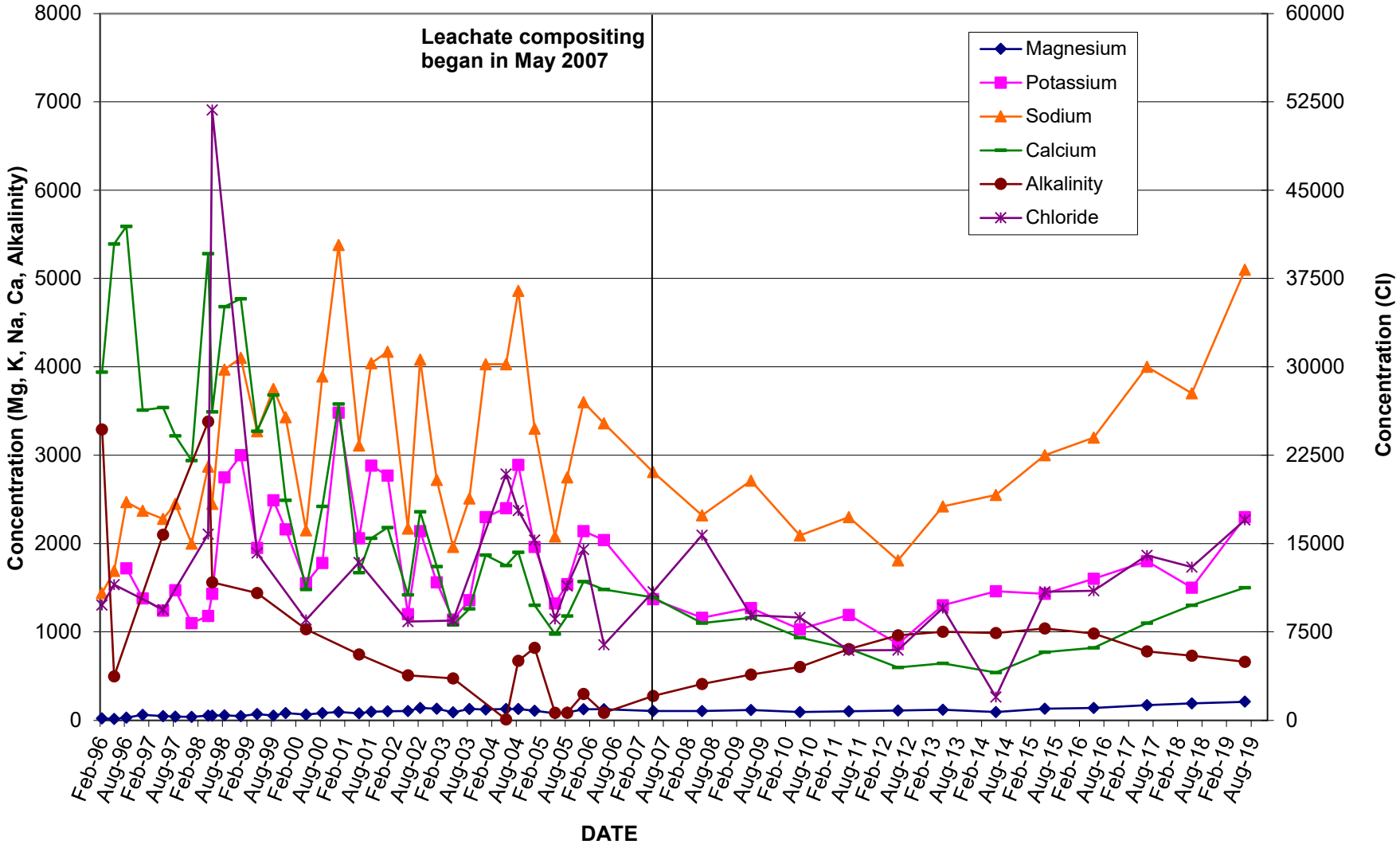

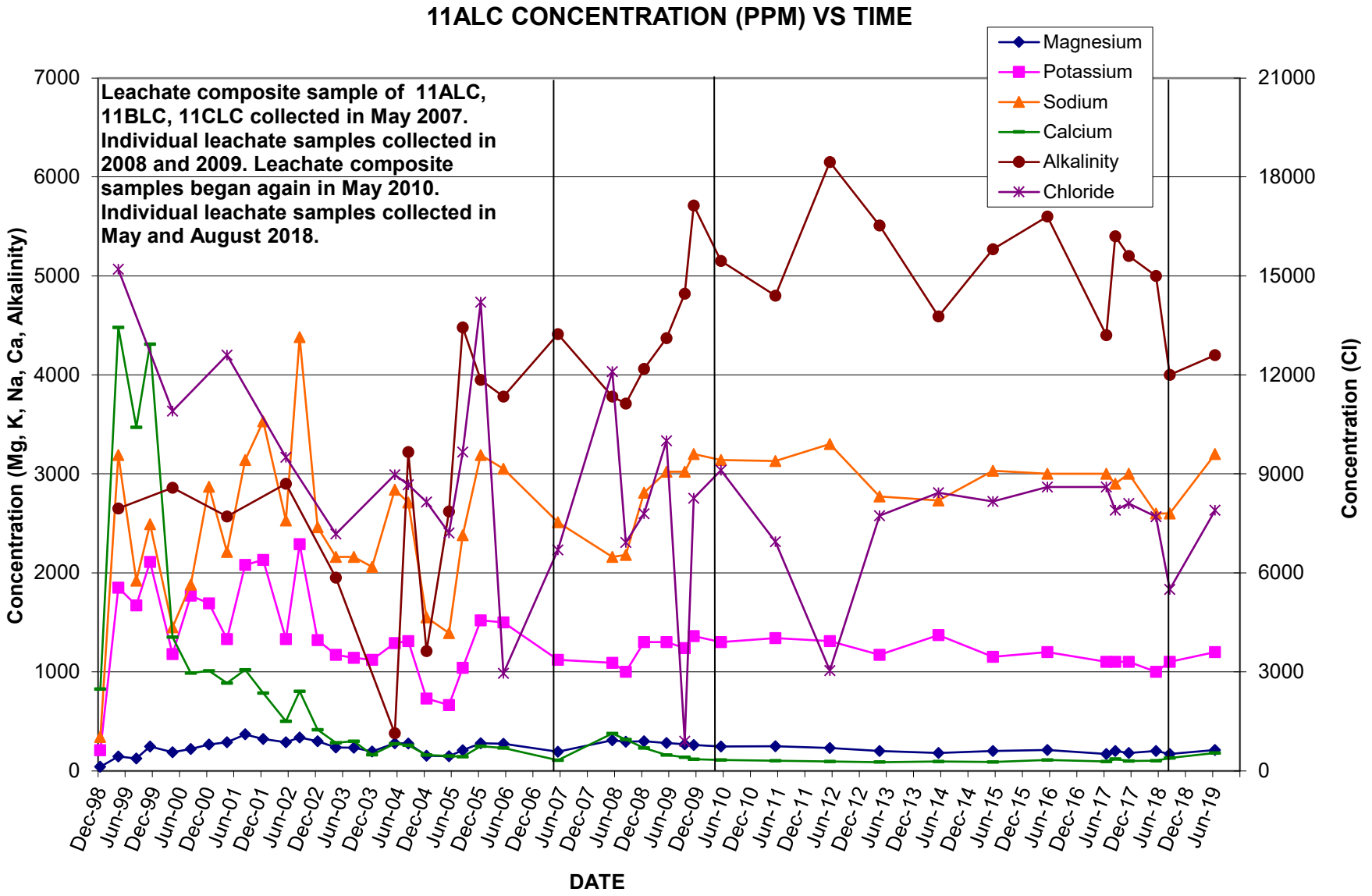
11ALC CONCENTRATION (PPM) VS TIME
Leachate composite sample of 11ALC, 11BLC, 11CLC collected in May 2007. Individual leachate samples collected in 2008 and 2009. Leachate composite samples began again in May 2010. Individual leachate samples collected in May and August 2018.
Magnesium
Potassium
Sodium
Calcium
Alkalinity
Chloride
Concentration (Mg, K, Na, Ca, Alkalinity)
Concentration (Cl)
DATE
0
1000
2000
3000
4000
5000
6000
7000
3000
6000
9000
12000
15000
18000
21000
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
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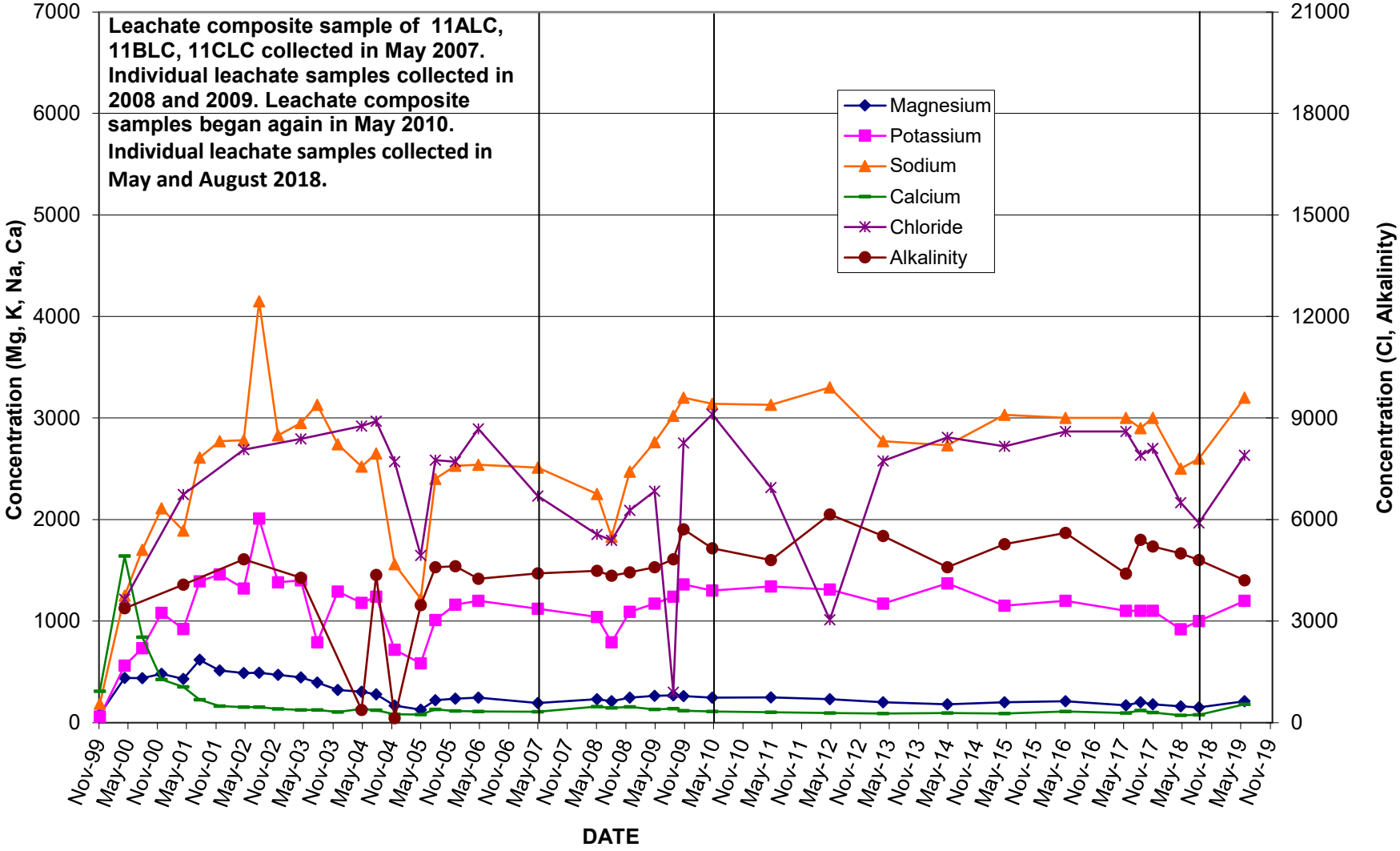
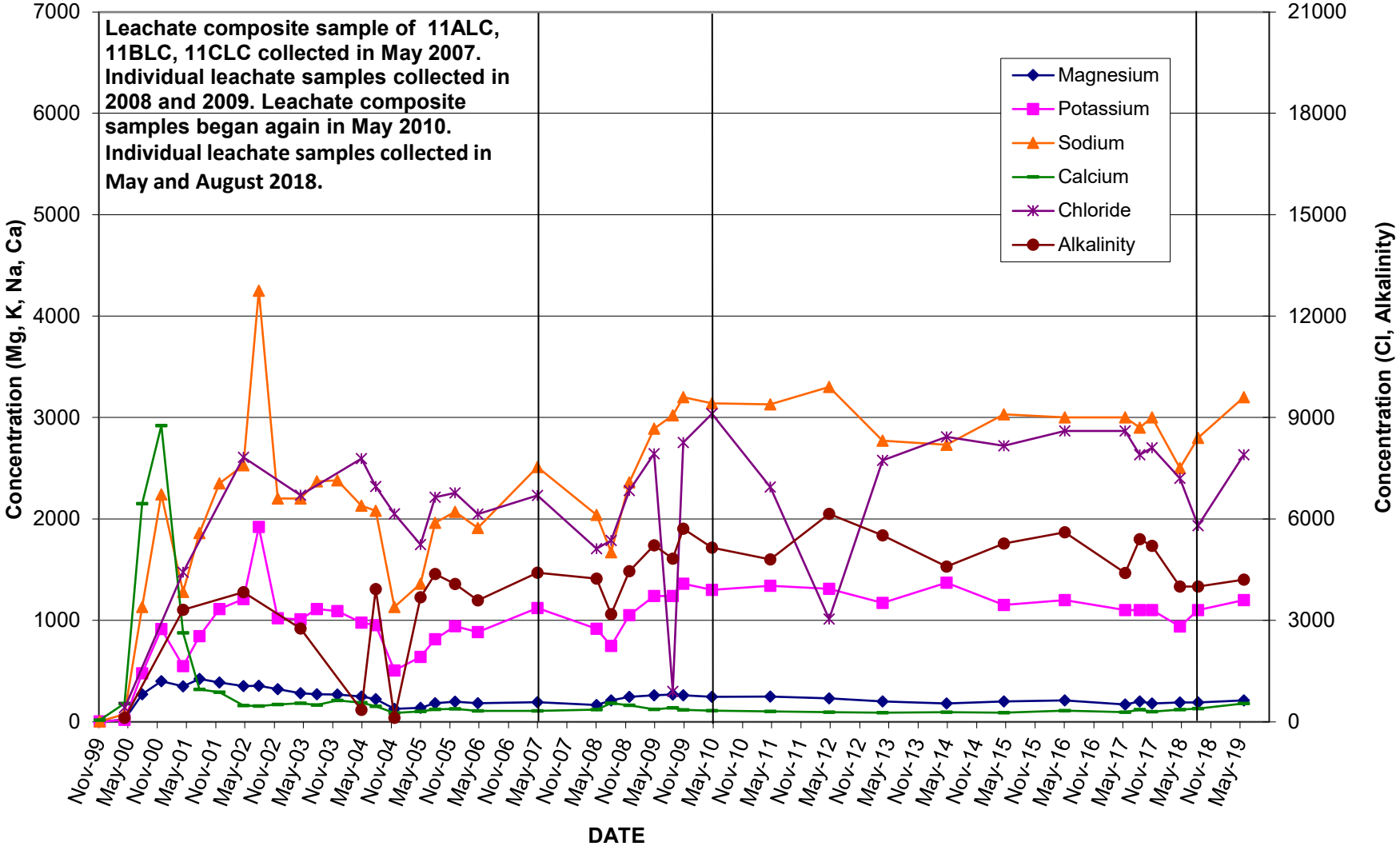
Jun-16
Dec-16
Jun-17
Dec-17
Jun-18
Dec-18
Jun-19

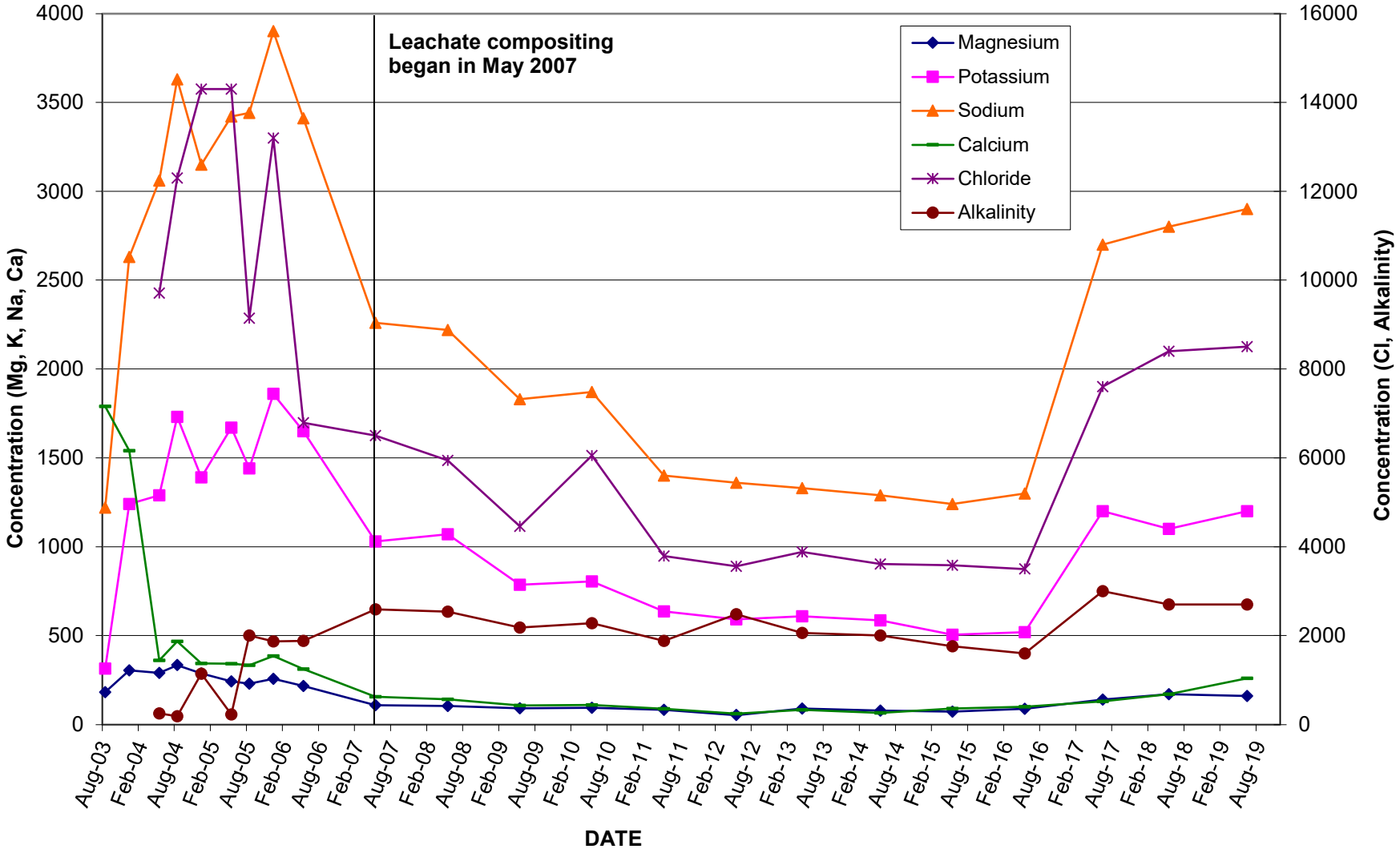
11BLC CONCENTRATION (PPM) VS TIME



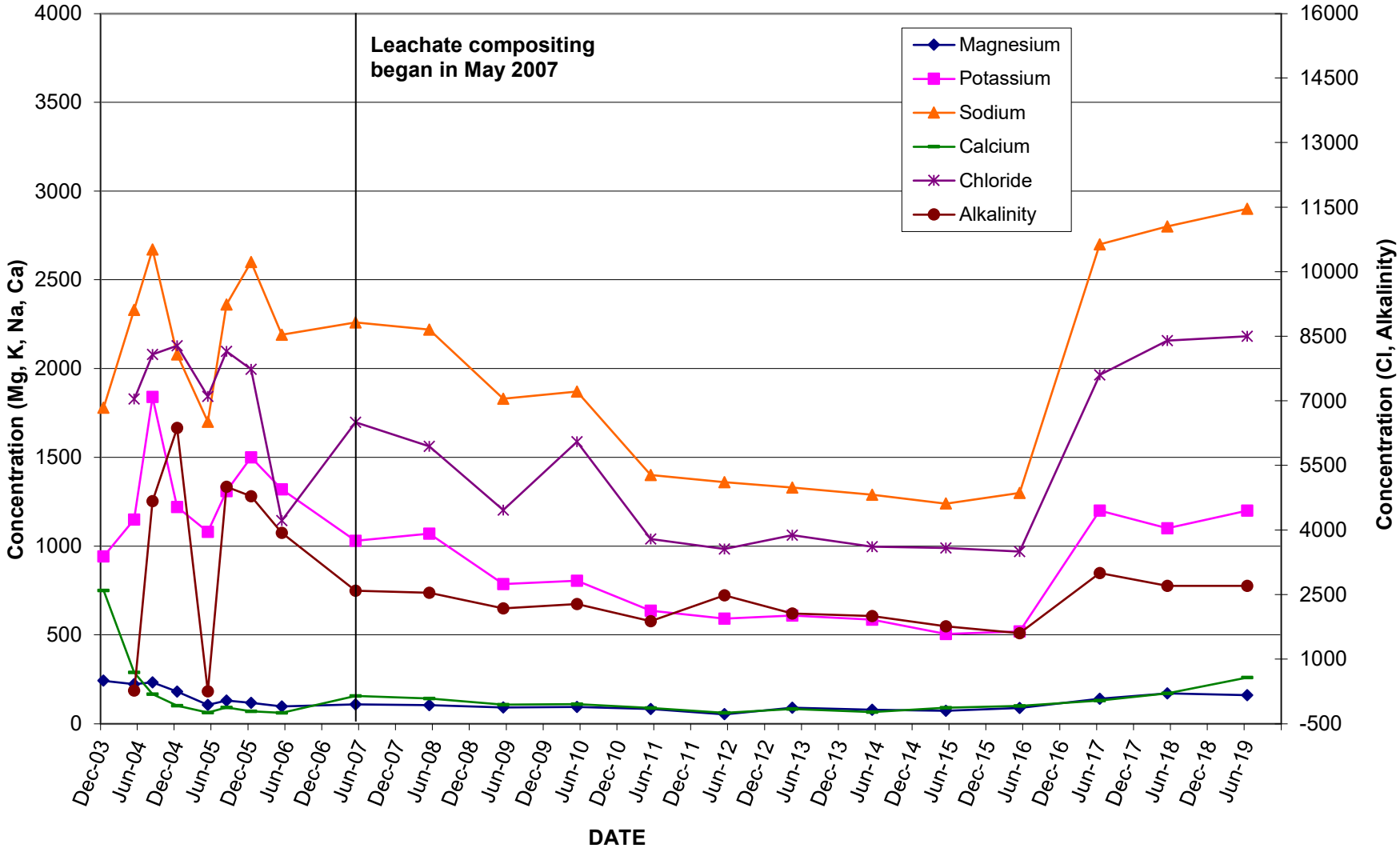
11CLC CONCENTRATION (PPM) VS TIME



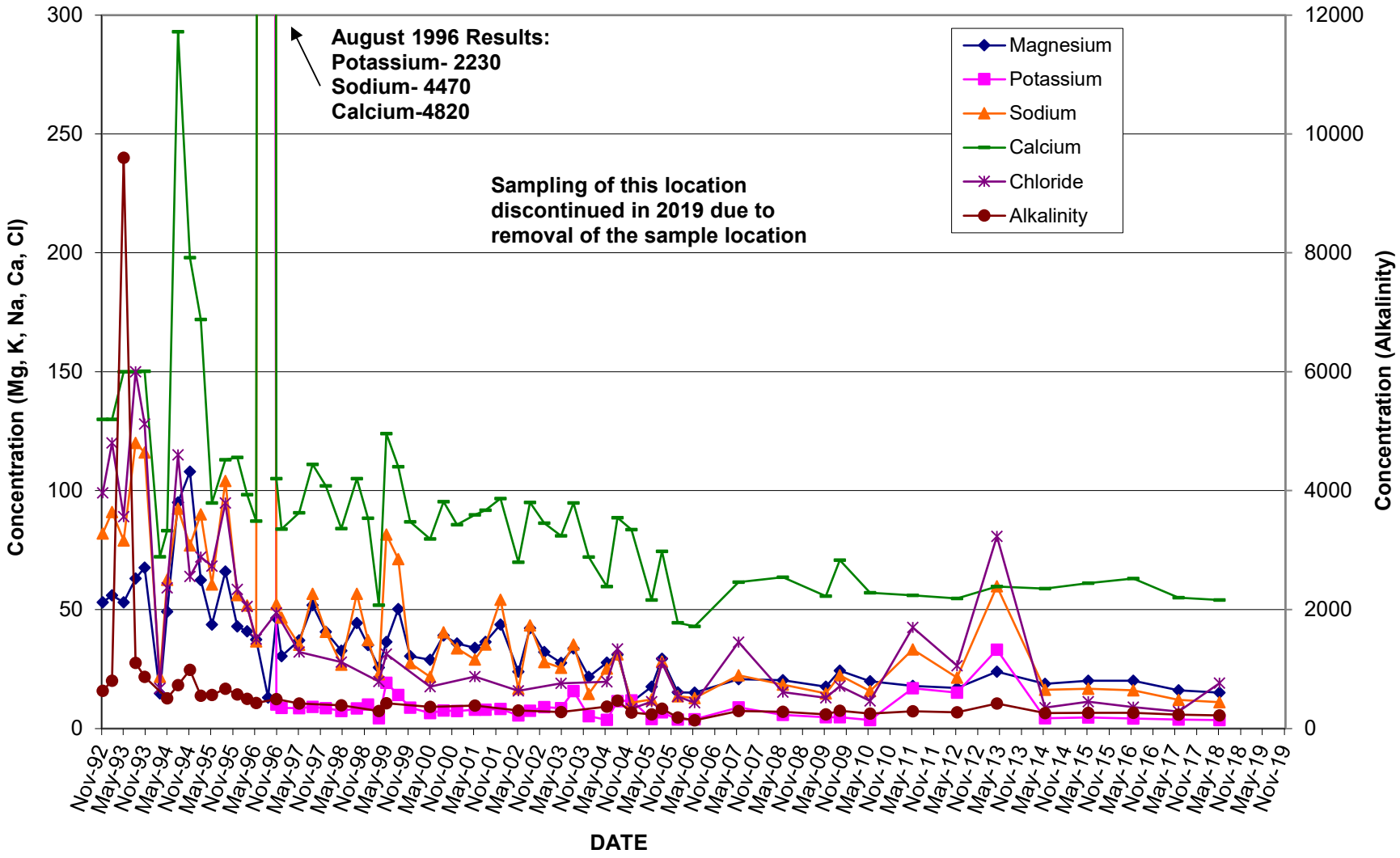
12ALC CONCENTRATION (PPM) VS TIME



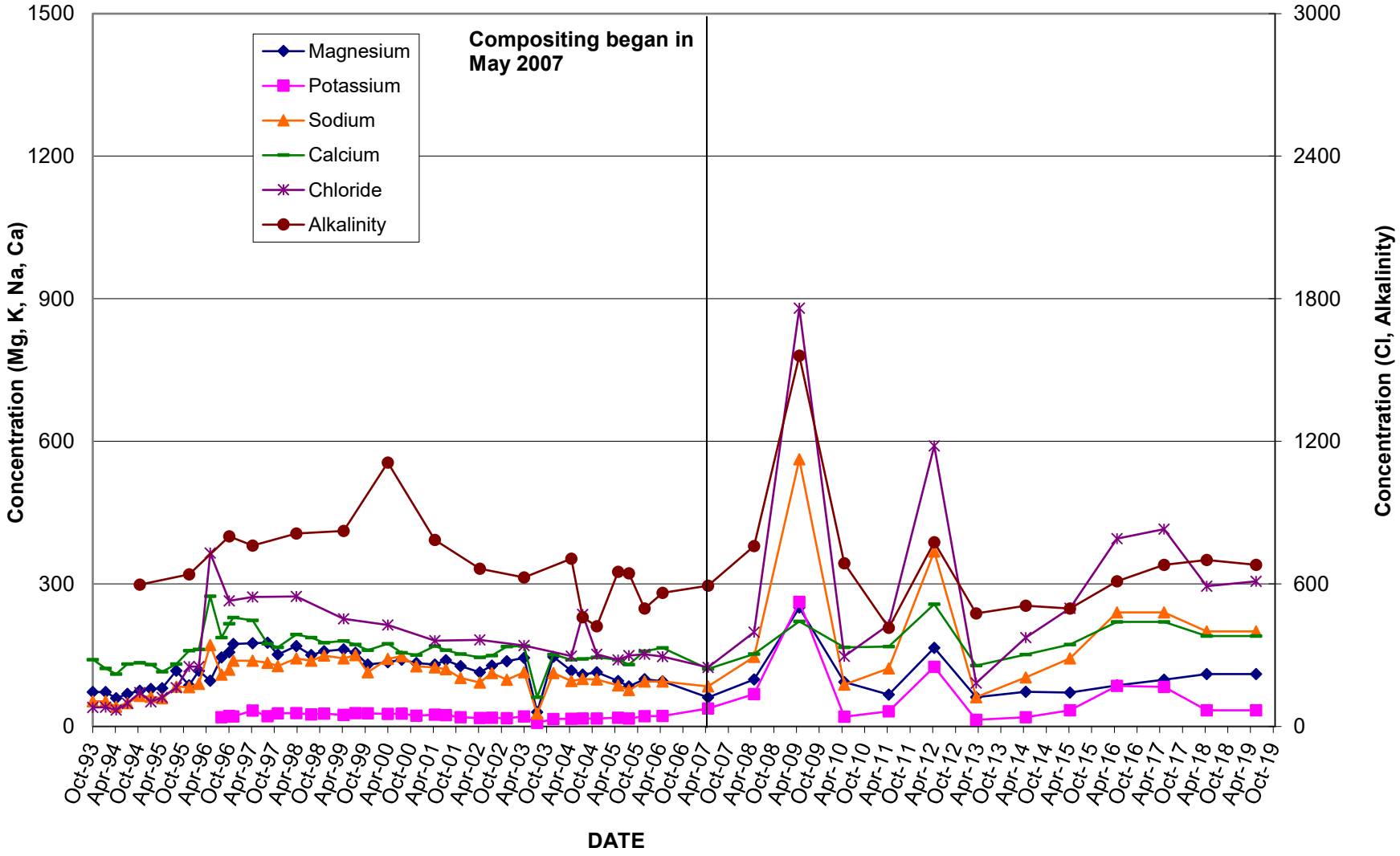
12BLC CONCENTRATION (PPM) VS TIME



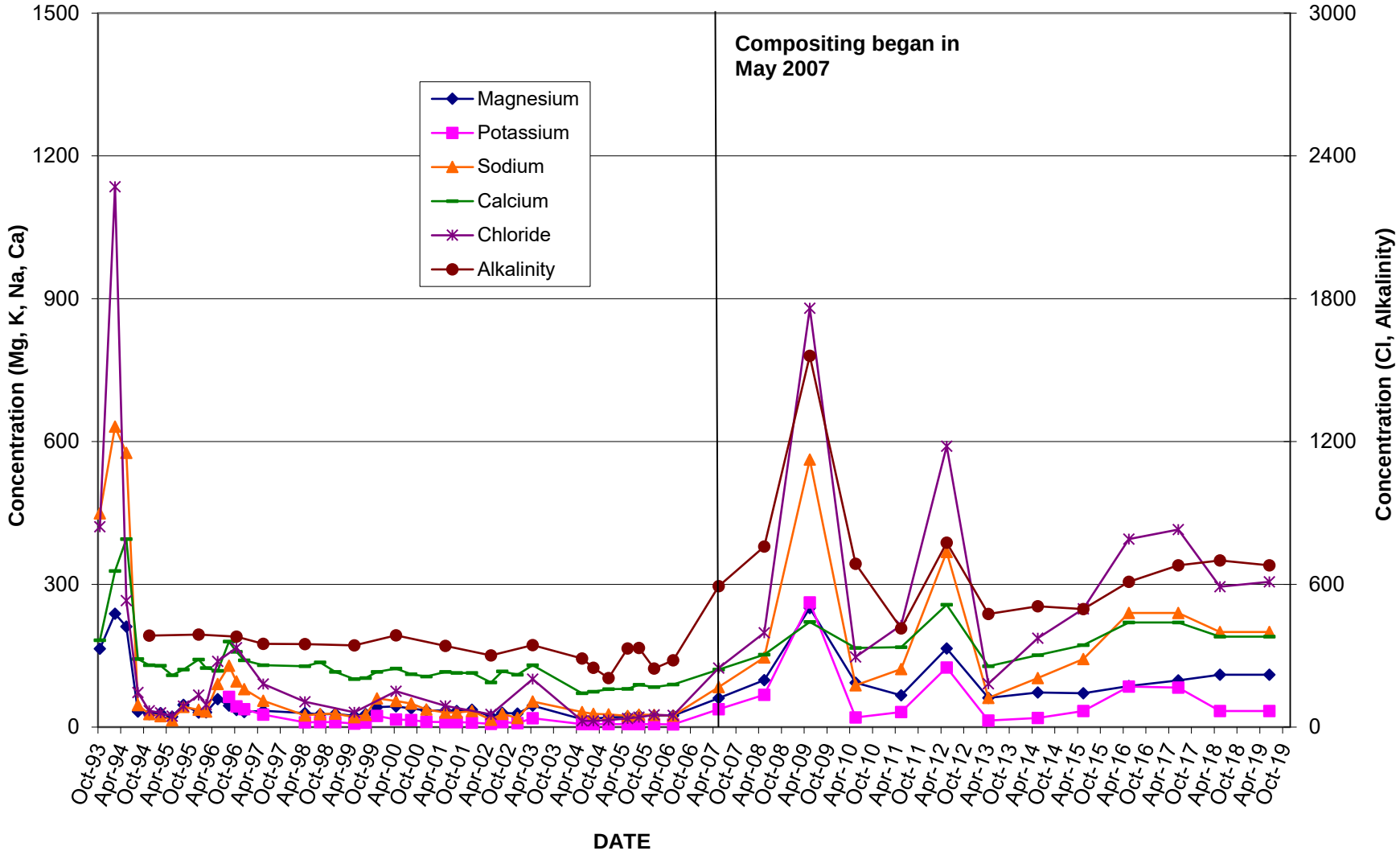
ABTD CONCENTRATION (PPM) VS TIME



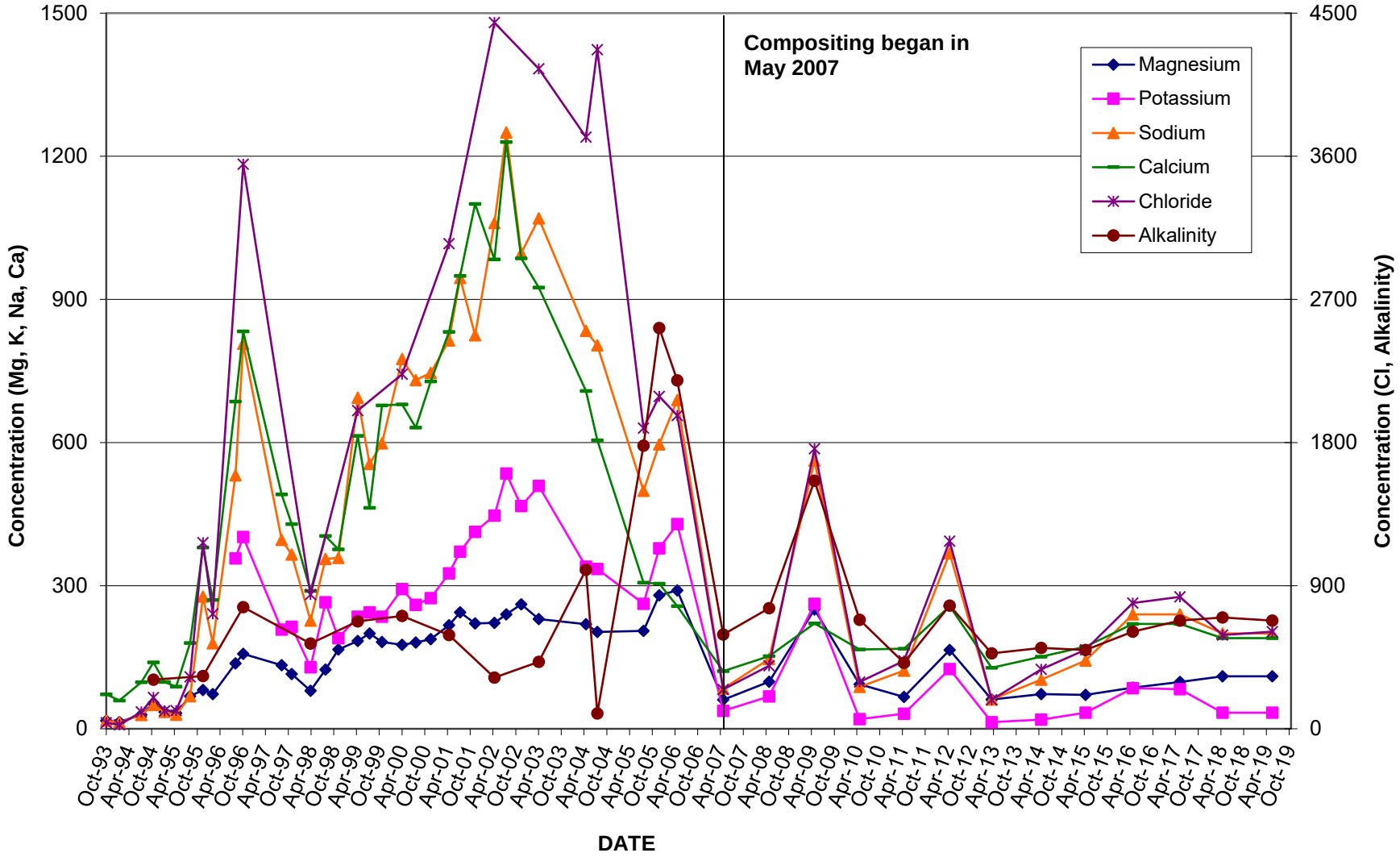
1LD CONCENTRATION (PPM) VS TIME



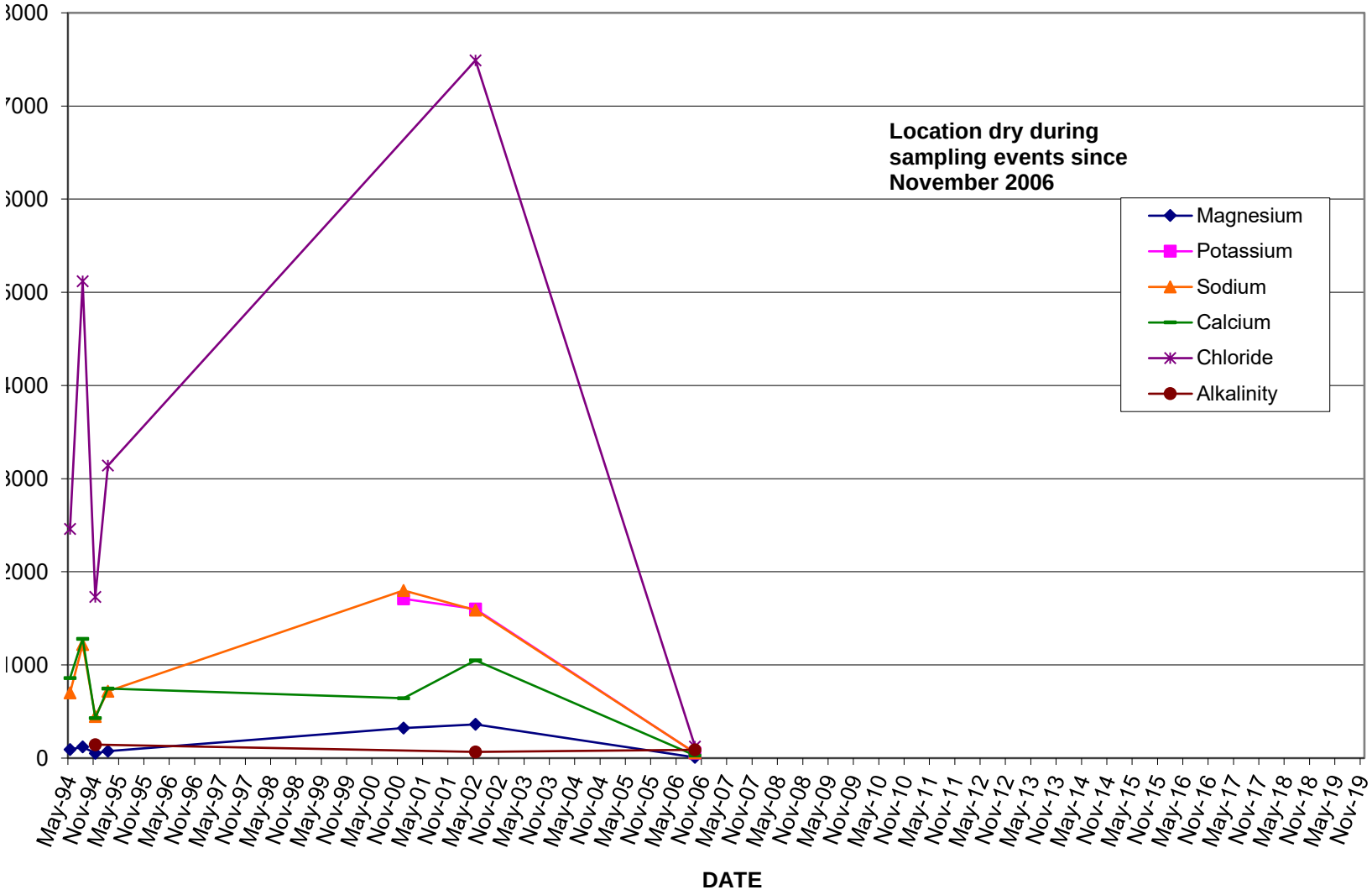
2LD CONCENTRATION (PPM) VS TIME



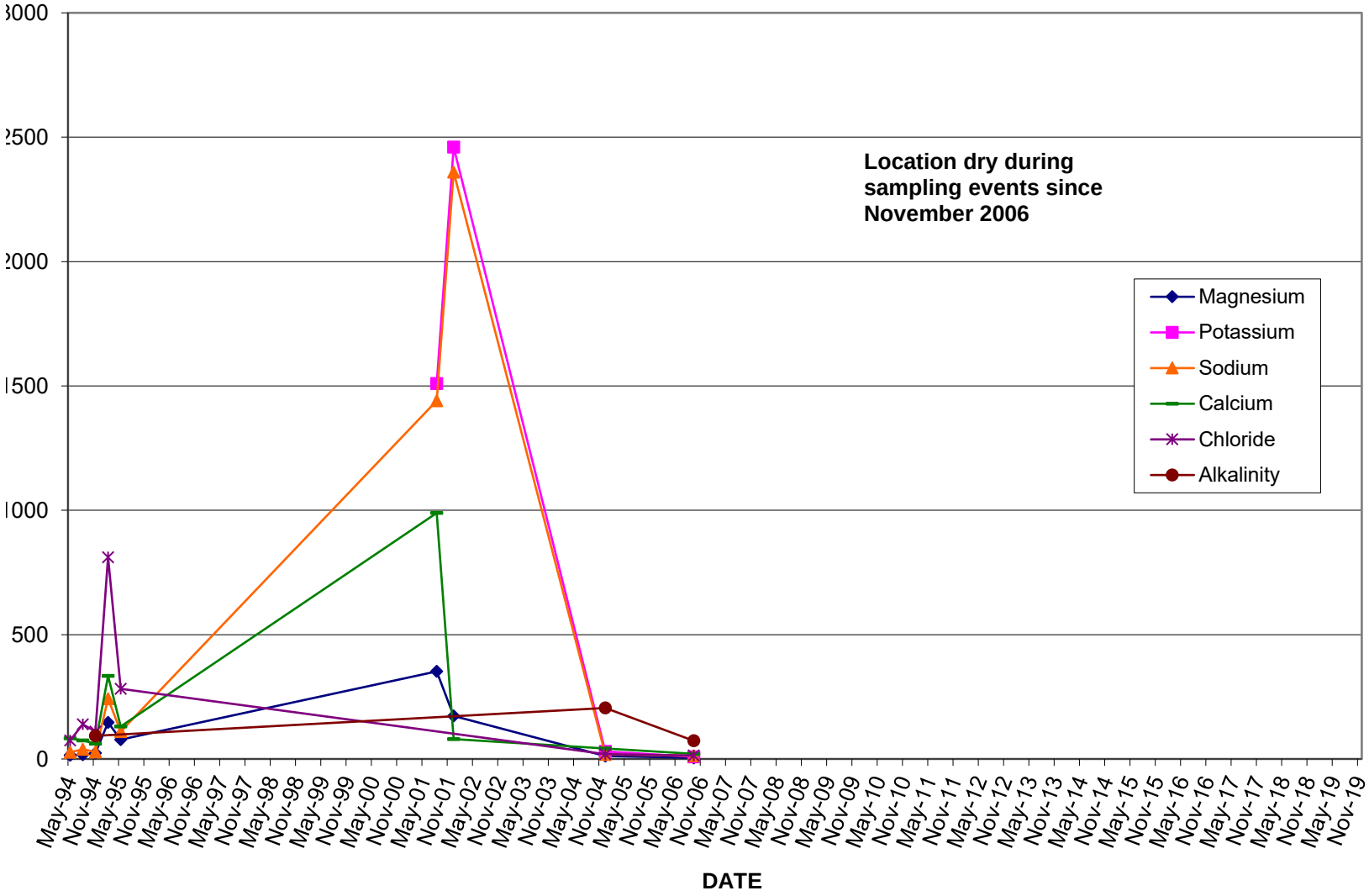
3LD CONCENTRATION (PPM) VS TIME

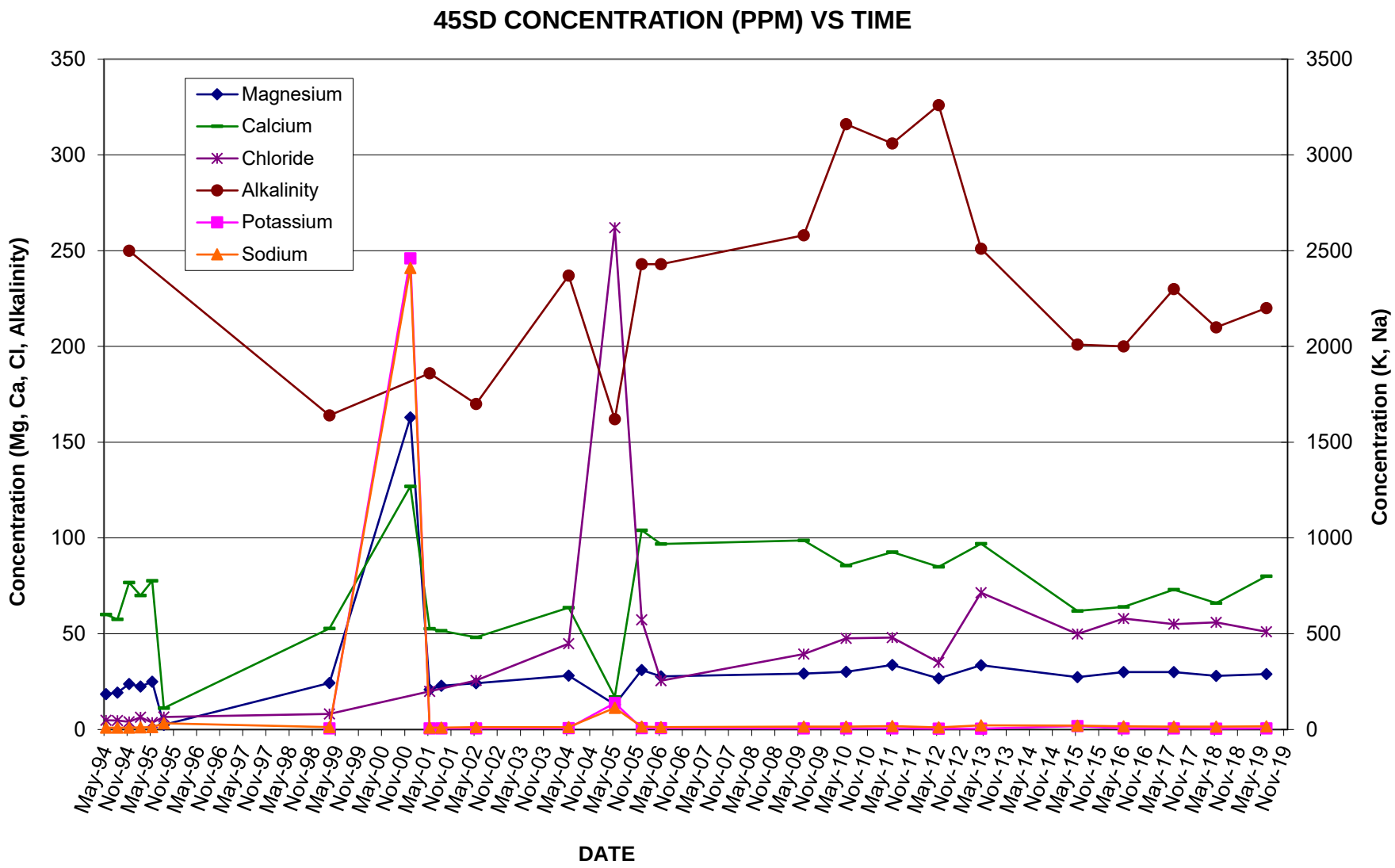


4ALD CONCENTRATION (PPM) VS TIME

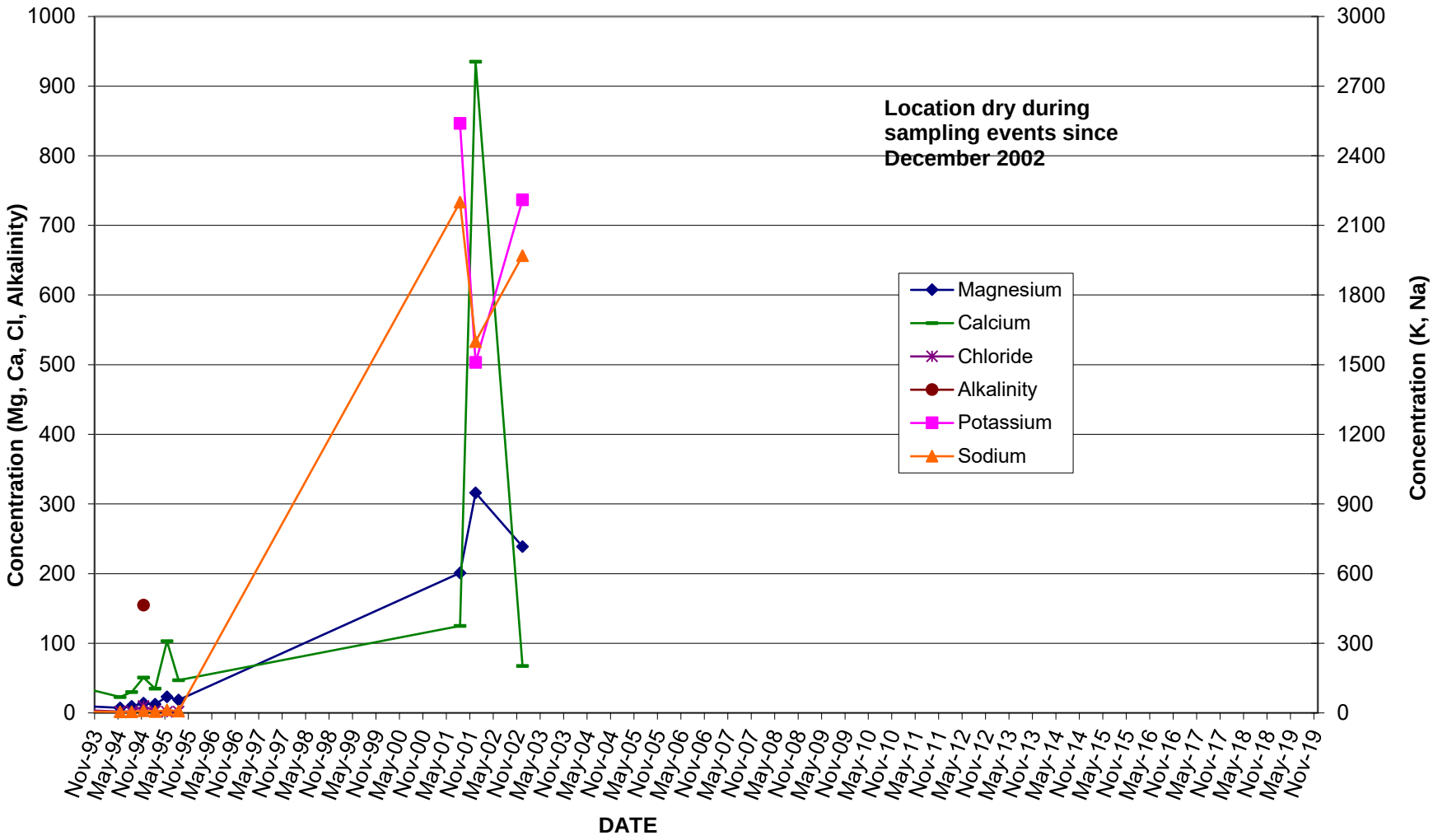


4BLD CONCENTRATION (PPM) VS TIME

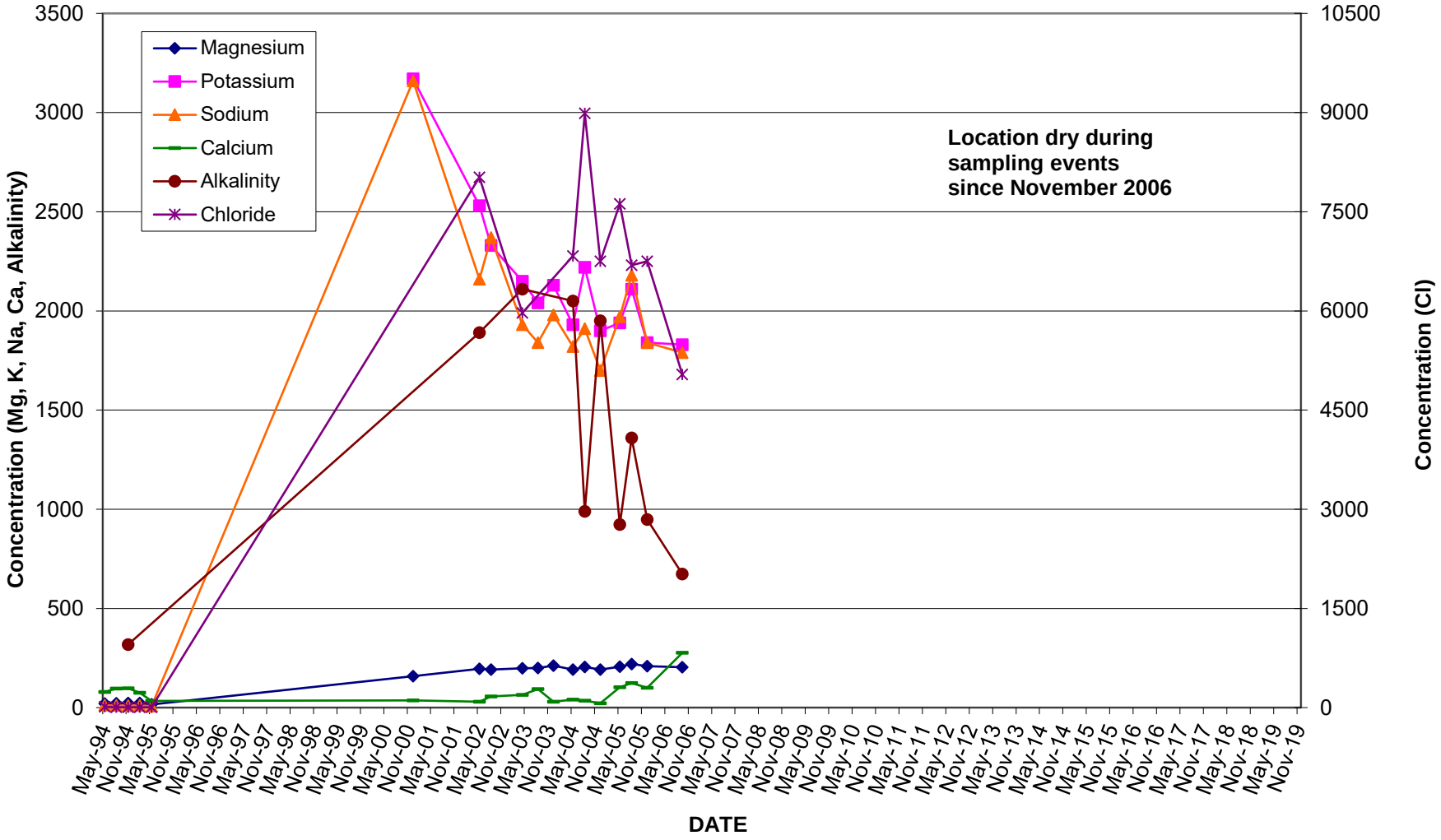



45SD CONCENTRATION (PPM) VS TIME
Magnesium
Calcium
Chloride
Alkalinity
Potassium
Sodium
Concentration (Mg, Ca, Cl, Alkalinity)
Concentration (K, Na)
DATE
350
300
250
200
150
100
50
0
3500
3000
2500
2000
1500
1000
500
0
May-94
Nov-94
May-95
Nov-95
May-96
Nov-96
May-97
Nov-97
May-98
Nov-98
May-99
Nov-99
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
May-14
Nov-14
May-15
Nov-15
May-16
Nov-16
May-17
Nov-17
May-18
Nov-18
May-19
Nov-19

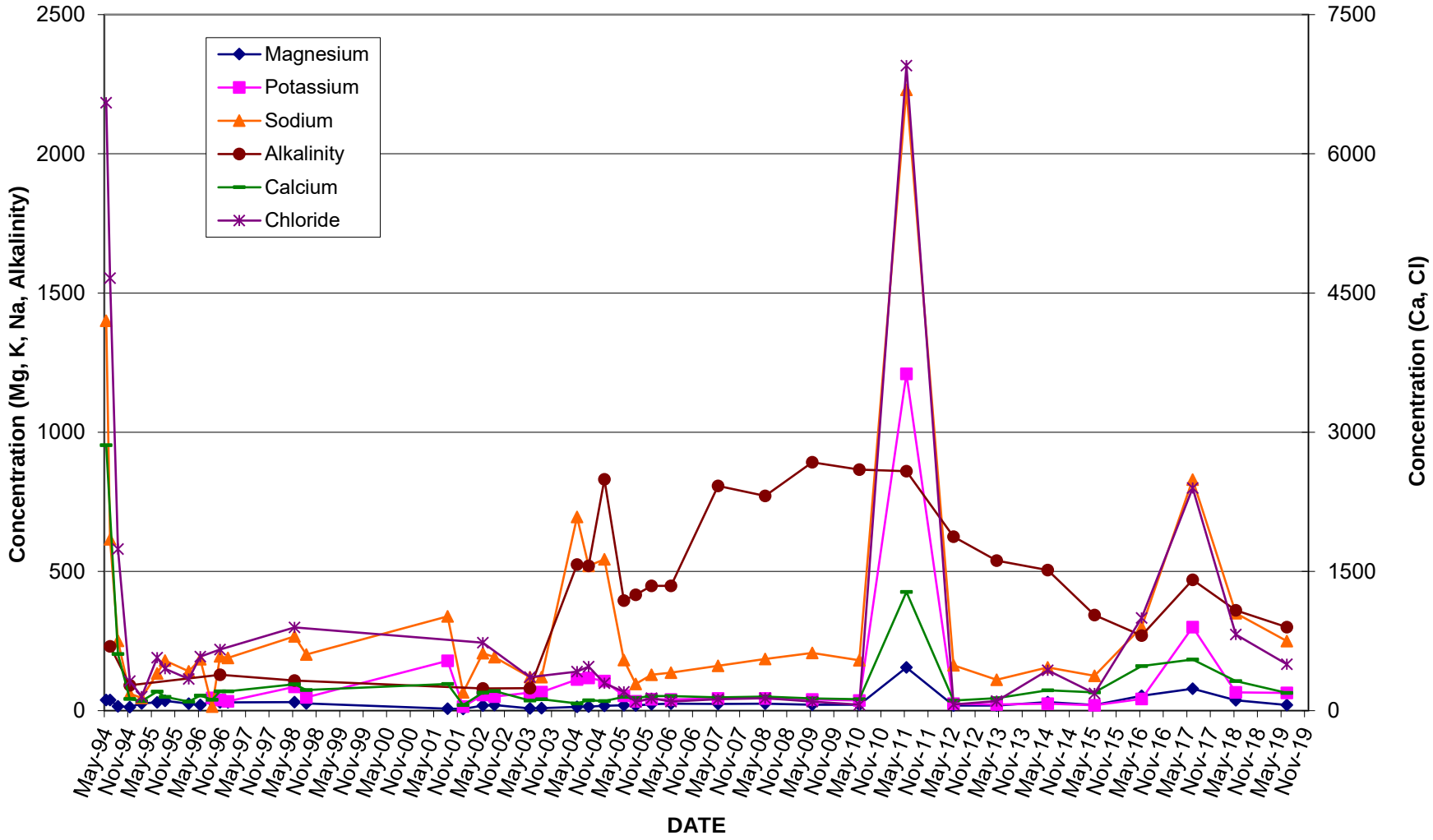
5ALD CONCENTRATION (PPM) VS TIME

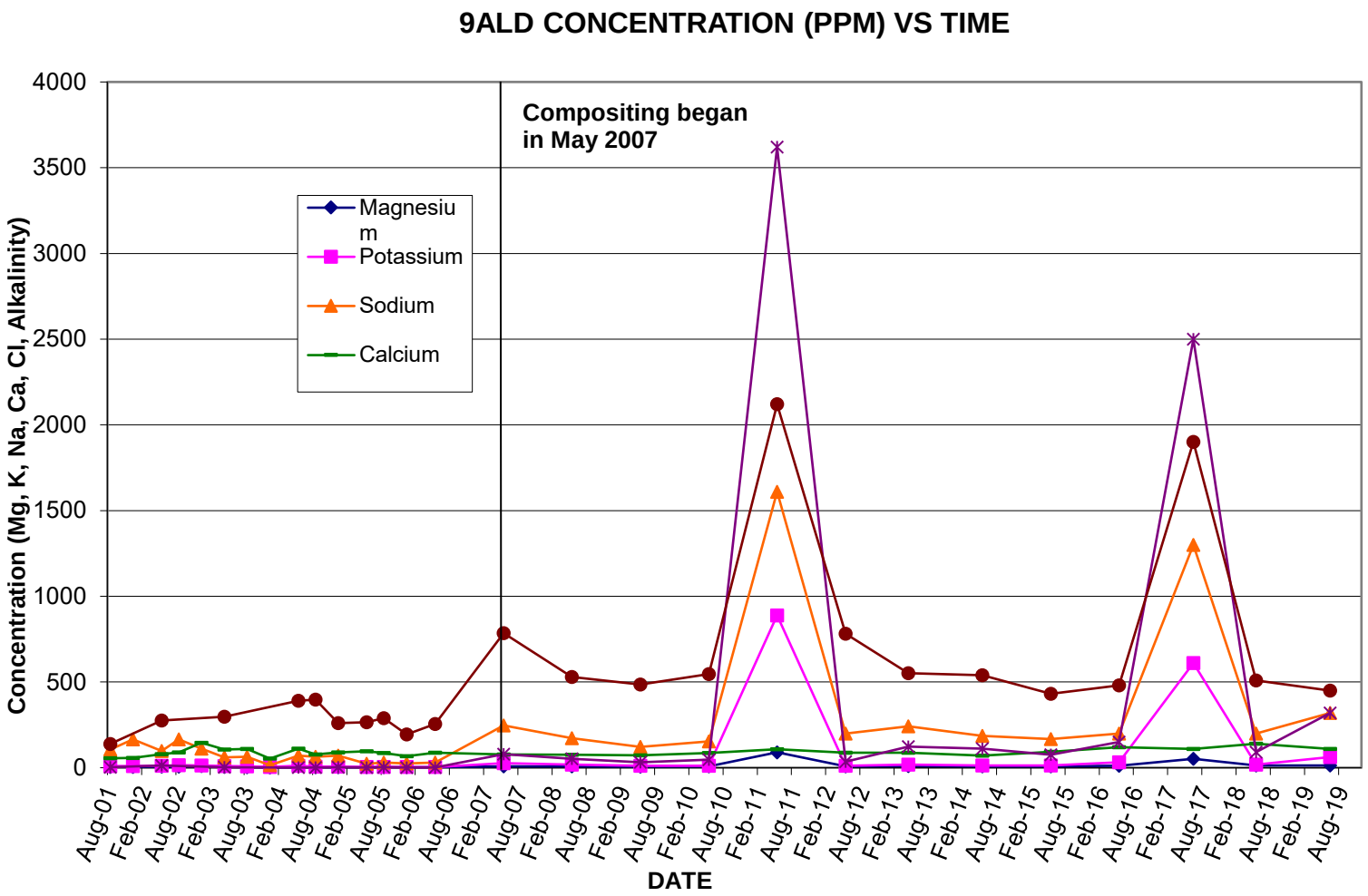


5BLD CONCENTRATION (PPM) VS TIME

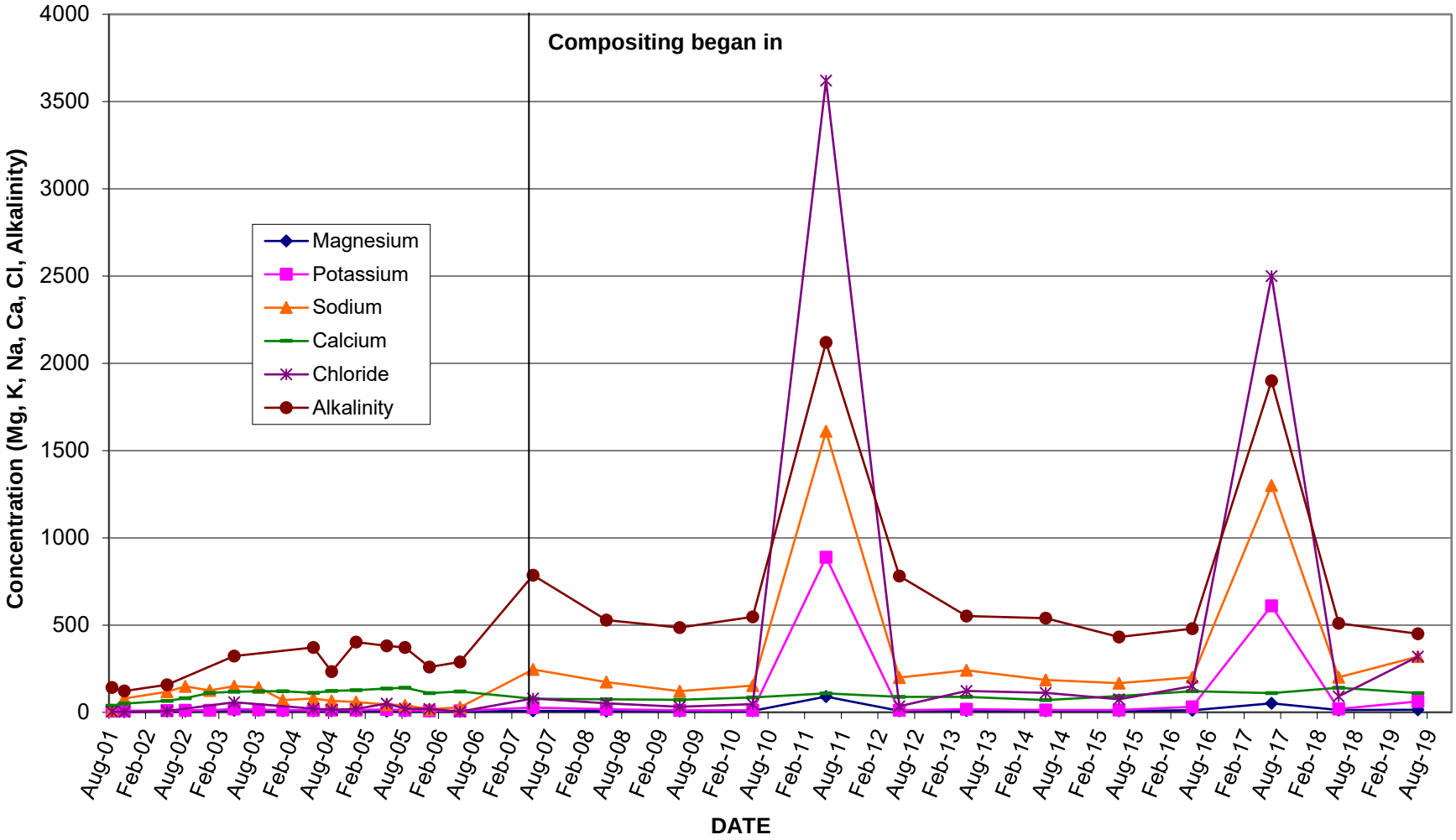


7LD CONCENTRATION (PPM) VS TIME

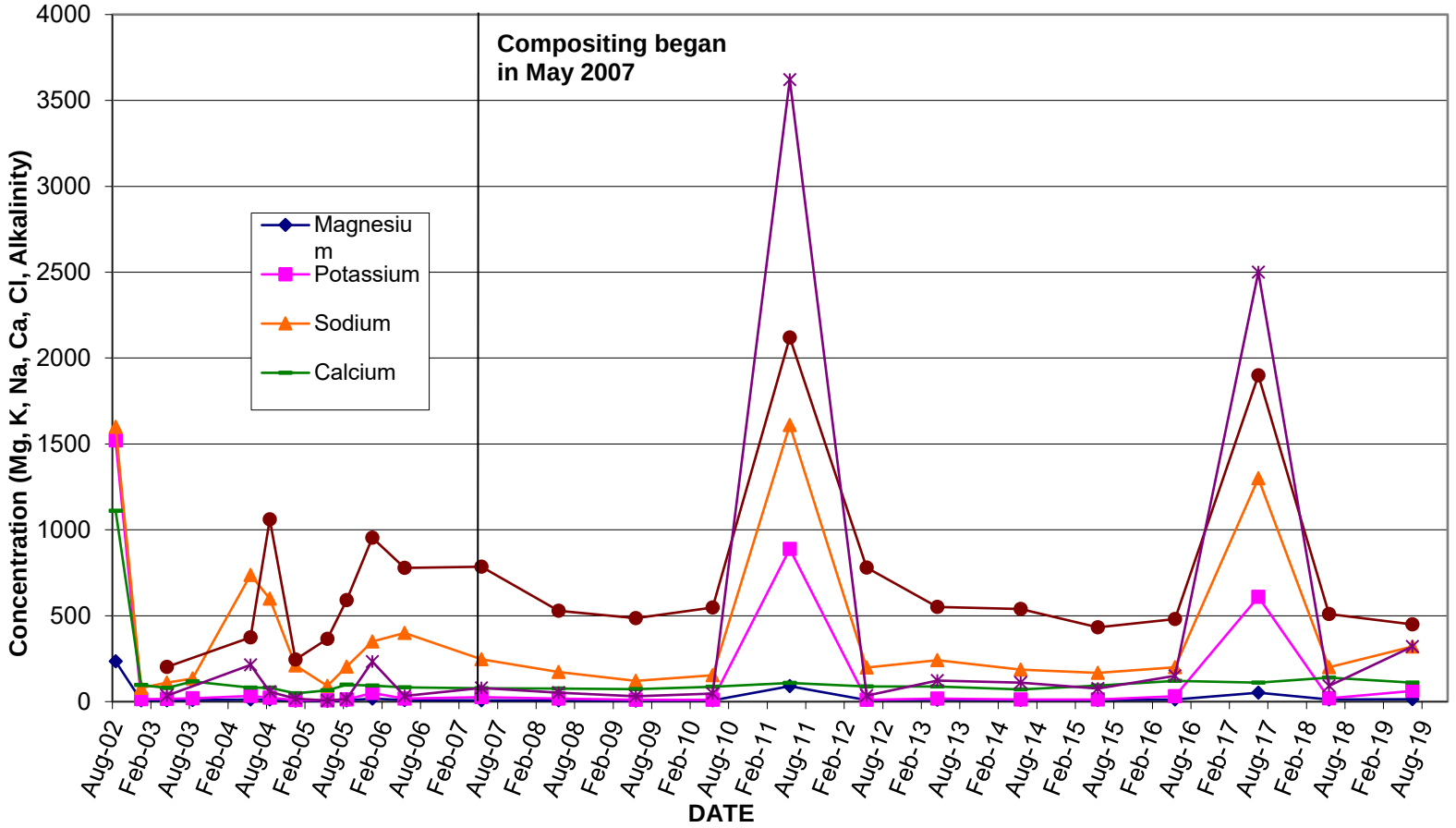


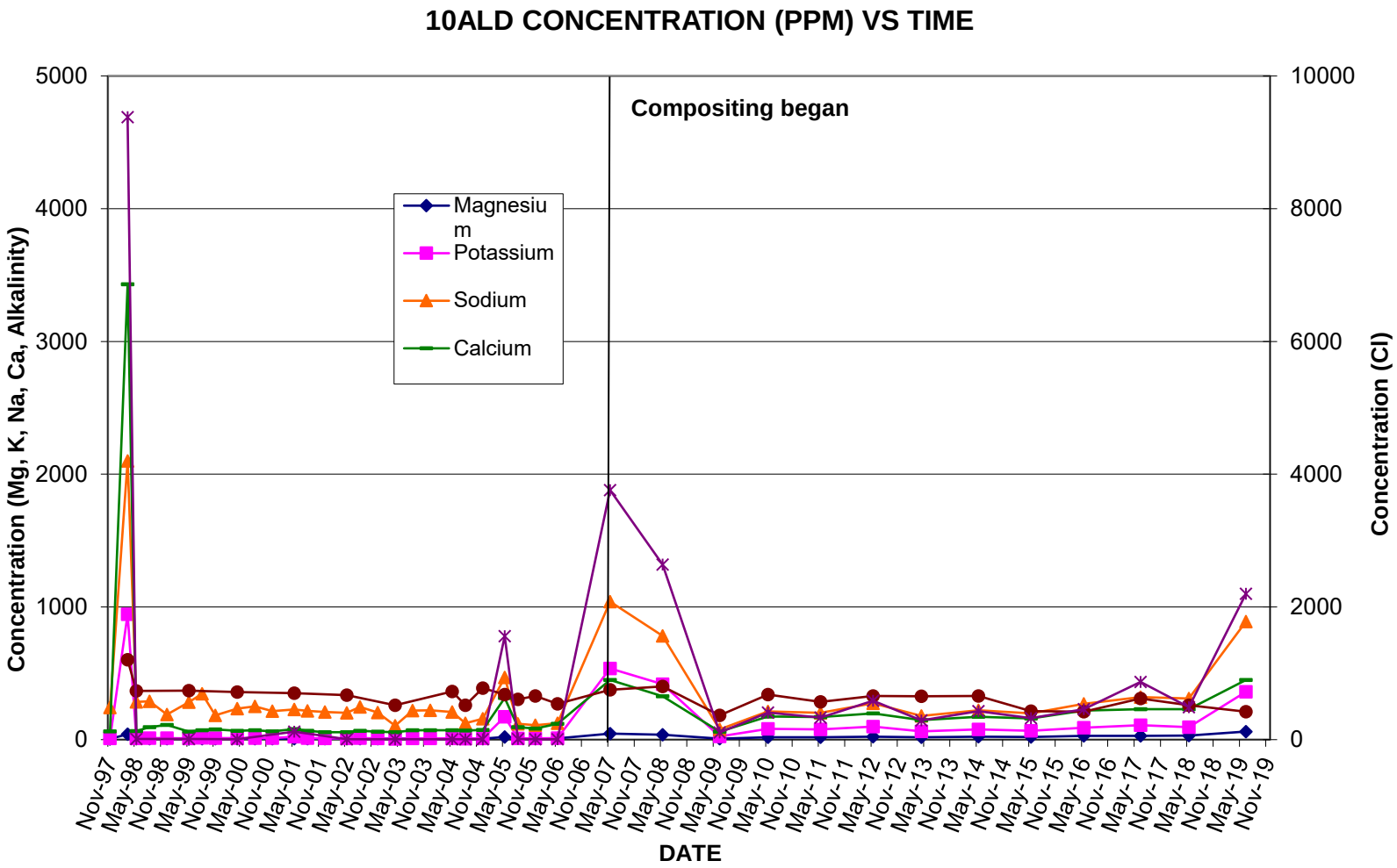

9ALD CONCENTRATION (PPM) VS TIME
Compositing began in May 2007
Magnesium
Potassium
Sodium
Calcium
Concentration (Mg, K, Na, Ca, Cl, Alkalinity)
4000
3500
3000
2500
2000
1500
1000
500
0
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Aug-06
Feb-07
Aug-07
Feb-08
Aug-08
Feb-09
Aug-09
Feb-10
Aug-10
Feb-11
Aug-11
Feb-12
Aug-12
Feb-13
Aug-13
Feb-14
Aug-14
Feb-15
Aug-15
Feb-16
Aug-16
Feb-17
Aug-17
Feb-18
Aug-18
Feb-19
Aug-19
DATE

9BLD CONCENTRATION (PPM) VS TIME

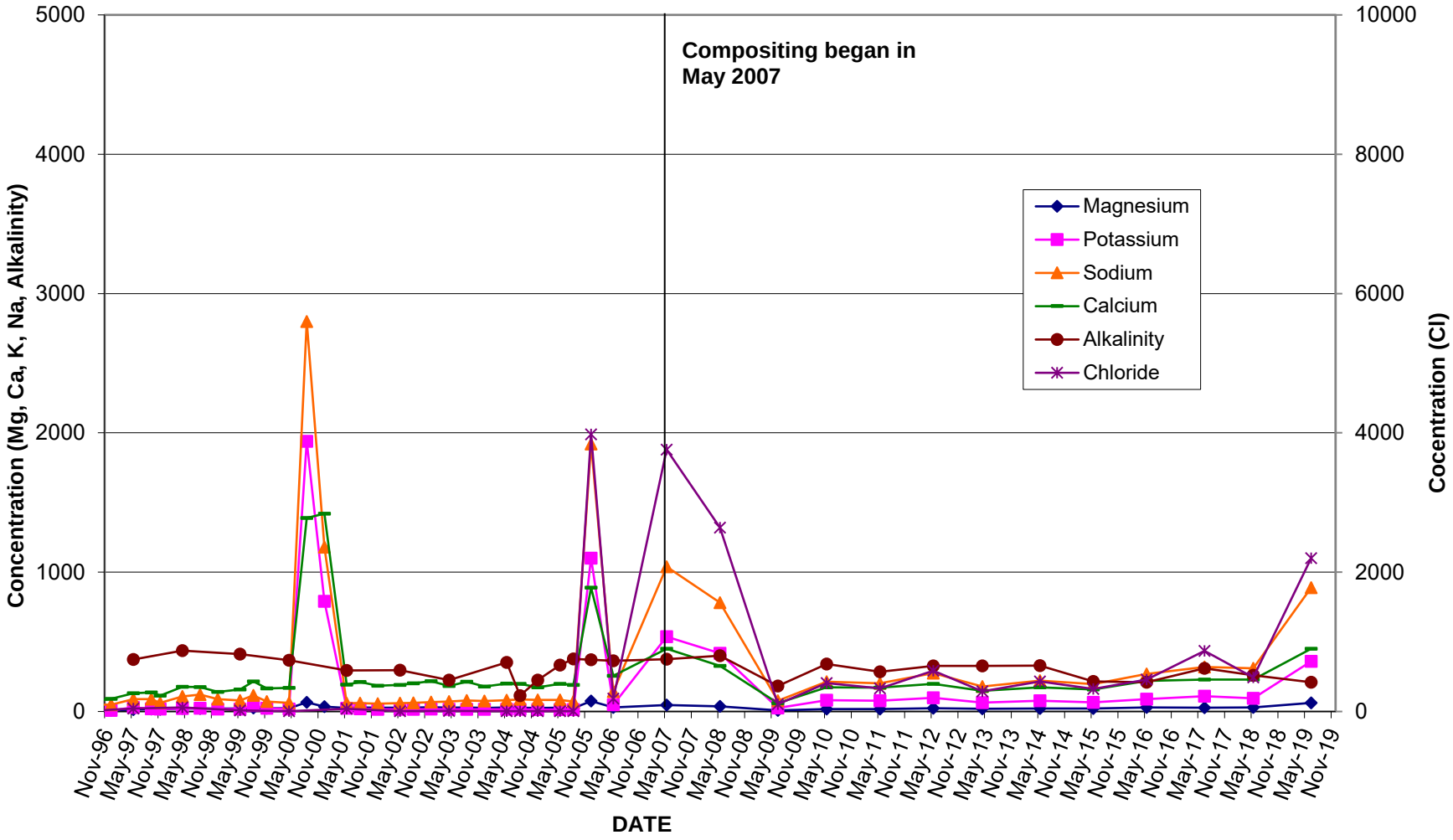


9CLD CONCENTRATION (PPM) VS TIME

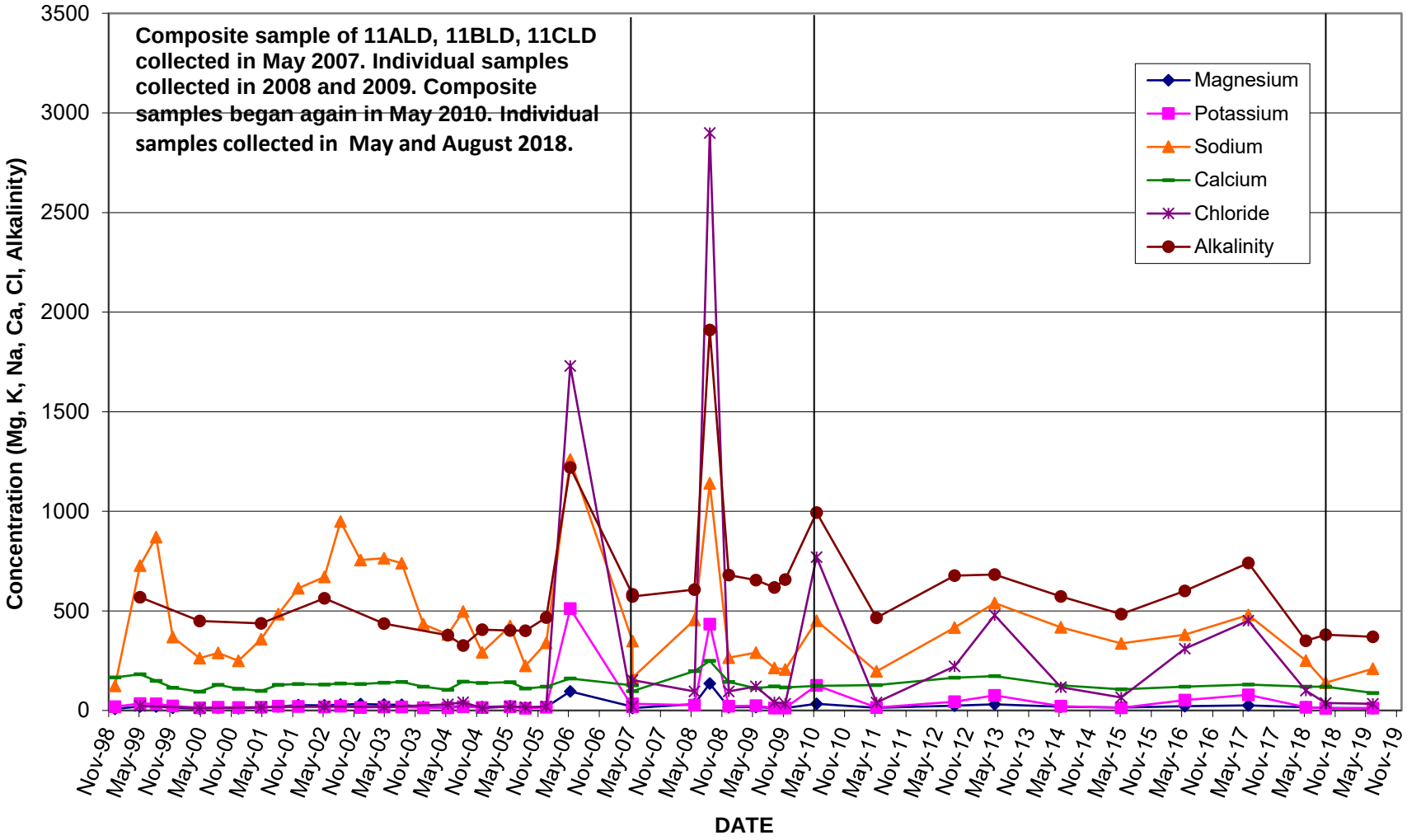



10ALD CONCENTRATION (PPM) VS TIME
Compositing began
Magnesium
Potassium
Sodium
Calcium
Concentration (Mg, K, Na, Ca, Alkalinity)
Concentration (Cl)
5000
4000
3000
2000
1000
0
10000
8000
6000
4000
2000
0
Nov-97
May-98
Nov-98
May-99
Nov-99
May-00
Nov-00
May-01
Nov-01
May-02
Nov-02
May-03
Nov-03
May-04
Nov-04
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
Nov-10
May-11
Nov-11
May-12
Nov-12
May-13
Nov-13
May-14
Nov-14
May-15
Nov-15
May-16
Nov-16
May-17
Nov-17
May-18
Nov-18
May-19
Nov-19
DATE

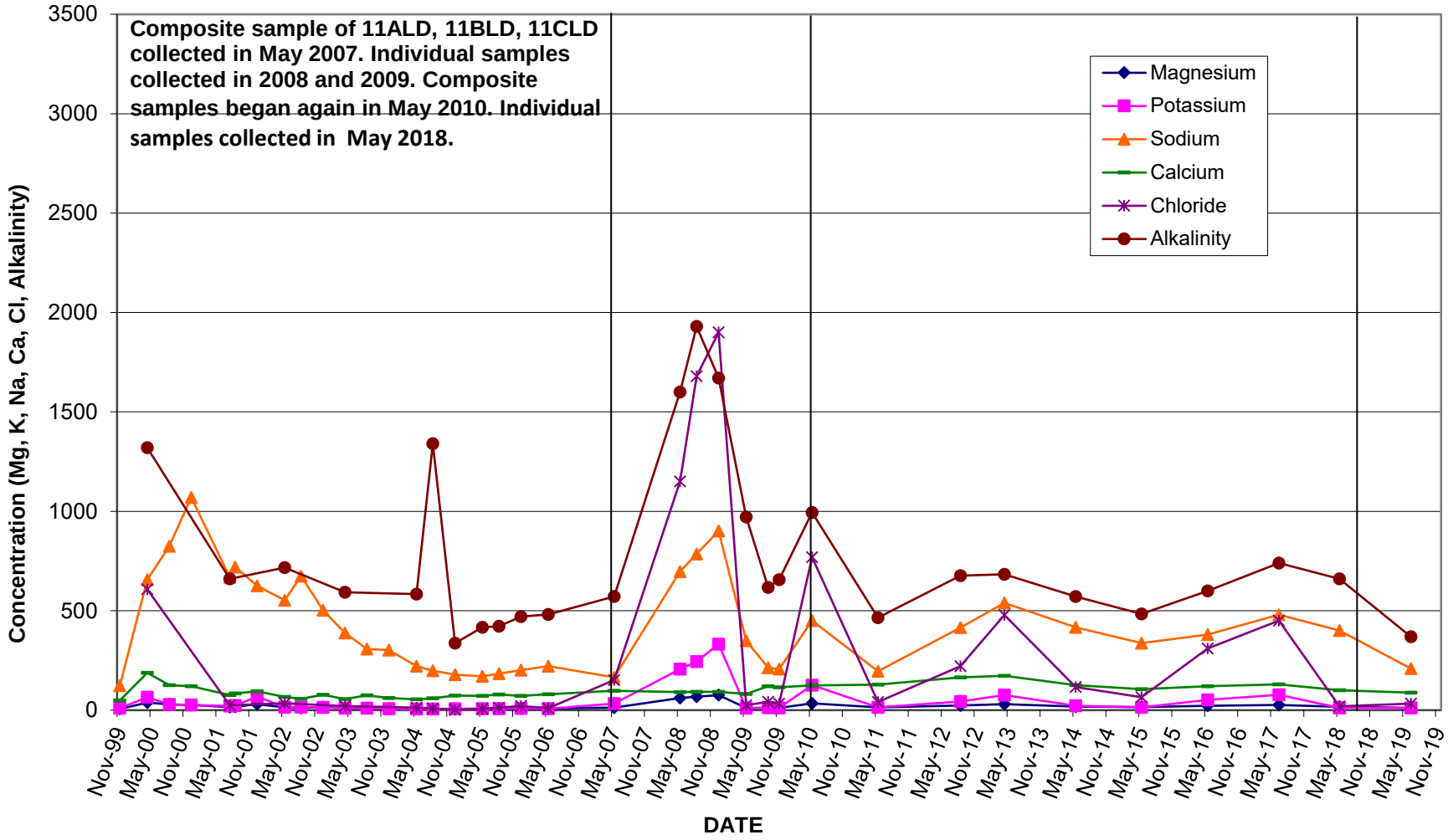
10BLD CONCENTRATION (PPM) VS TIME



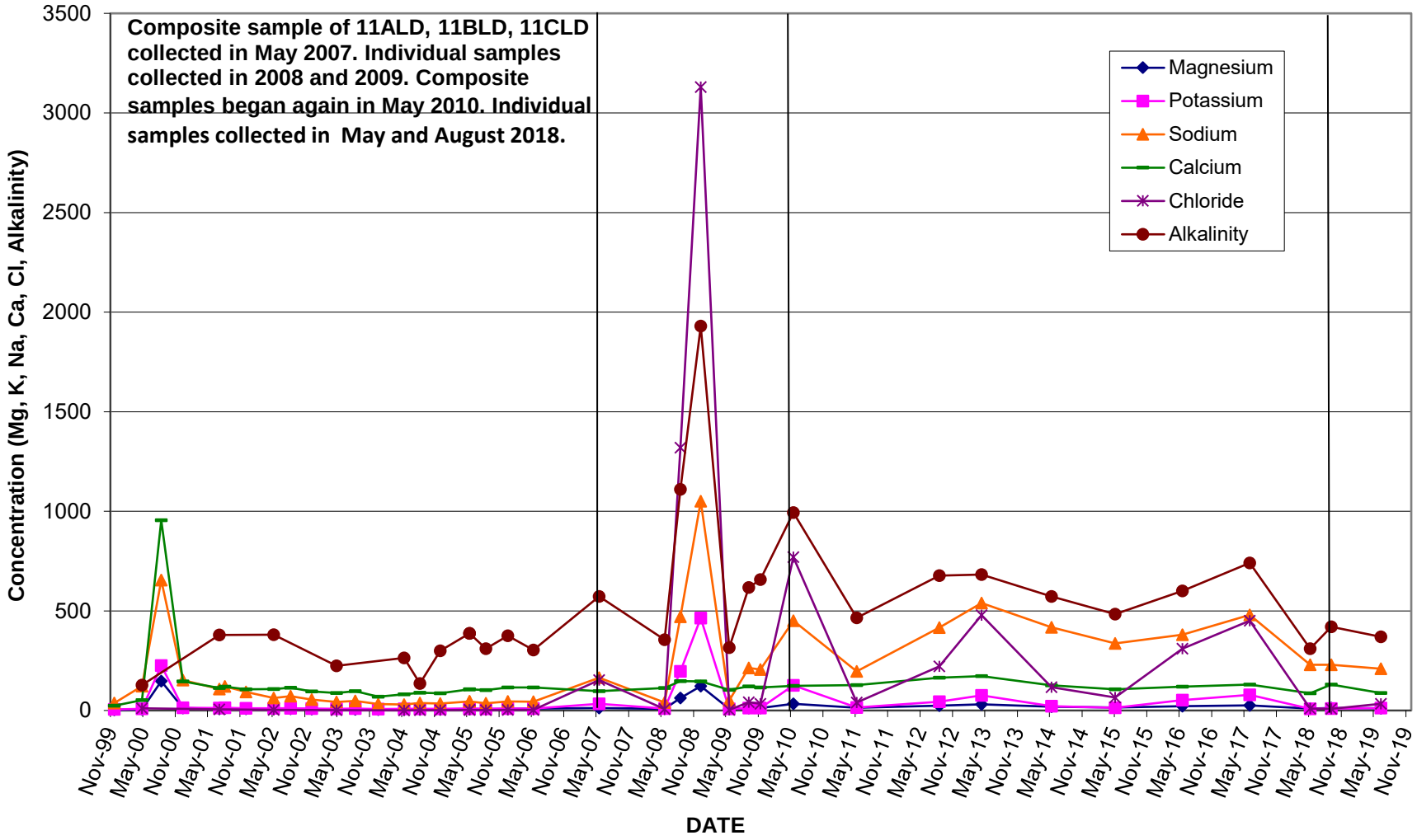
11ALD CONCENTRATION (PPM) VS TIME



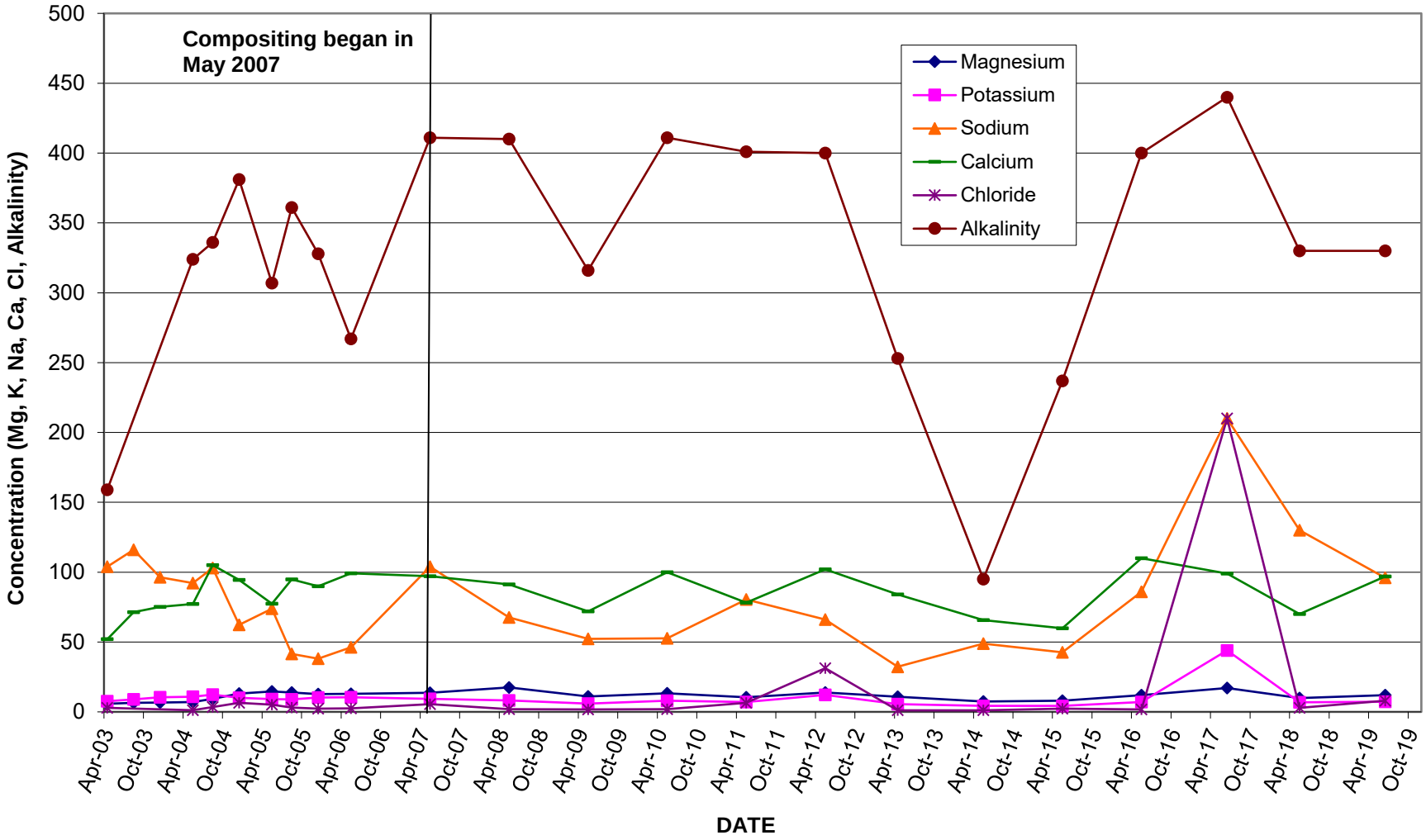
11BLD CONCENTRATION (PPM) VS TIME



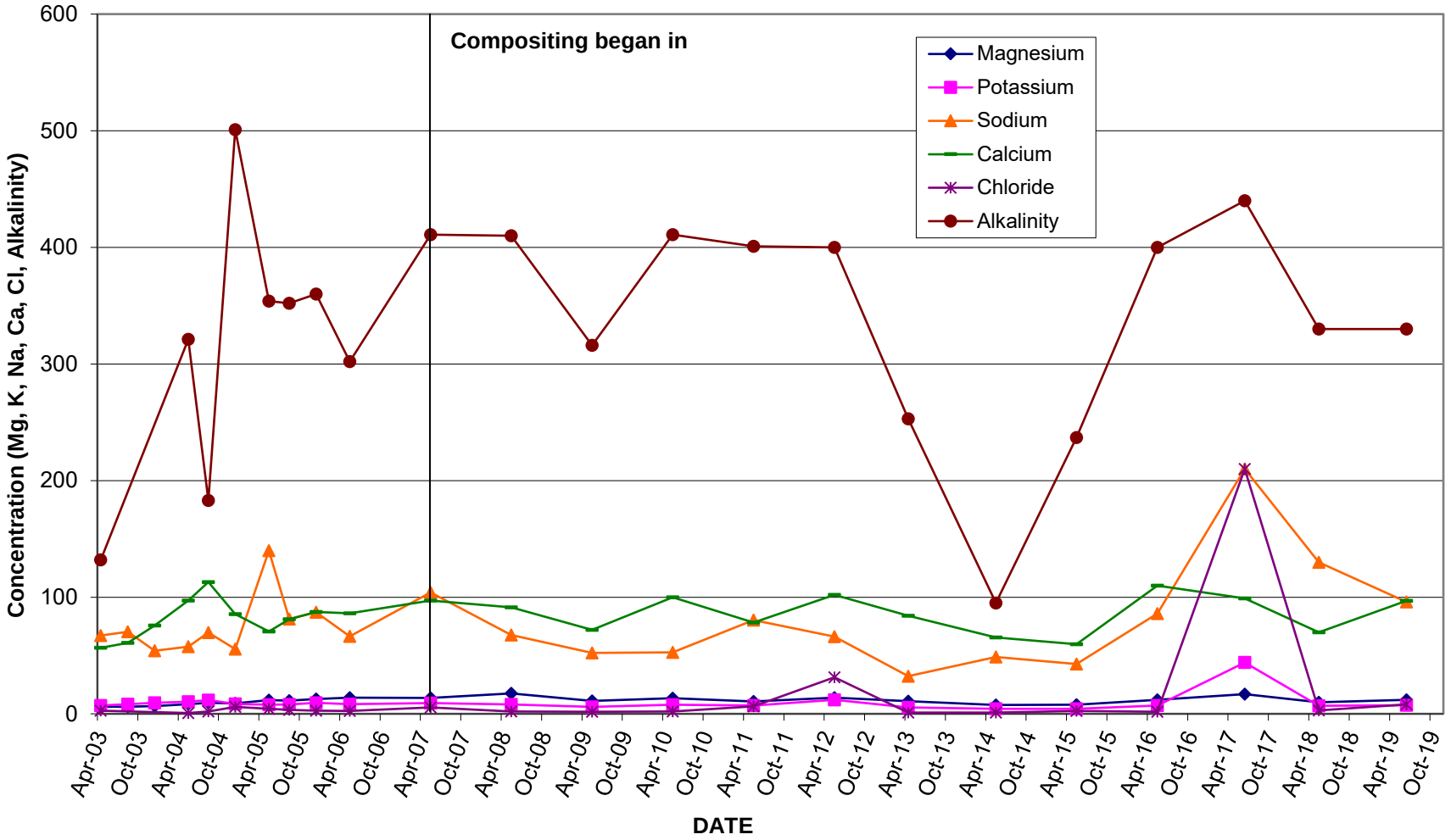
11CLD CONCENTRATION (PPM) VS TIME



12ALD CONCENTRATION (PPM) VS TIME



12BLD CONCENTRATION (PPM) VS TIME



APPENDIX L

Landfill Gas Monitoring Data

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MH-7		Temperature: 43°F		
Date/Time: 3-29-19 / 14:00		Barometric Presure: 29.67		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.0 %	0.0%	.000 %	0.0 PPM
1-Minute Reading	19.2%	0.0%	.000%	0.0 PPM
5-Minute Reading	19.5 %	0.0%	.000 %	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLD-12C		Temperature: 43°F		
Date/Time: 3-29-19 / 14:15		Barometric Presure: 29.67		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.1 %	0.0%	.000%	0.0 PPM
1-Minute Reading	20.3%	0.0 %	.000%	0.0 PPM
5-Minute Reading	20.6%	0.0%	.000%	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH1		Temperature: 43°F		
Date/Time: 3-29-19 / 14:41		Barometric Presure: 29.65		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.8%	0.0%	.000 %	0.0 PPM
1-Minute Reading	20.9 %	0.0%	.000%	0.0 PPM
5-Minute Reading	20.9%	0.0%	.000%	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MHLMH8C		Temperature: 42° F		
Date/Time: 3-29-19 / 13:10		Barometric Presure: 29.70		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.1 %	0.0%	.000 %	0.0 PPM
1-Minute Reading	20.3 %	0.0%	.000 %	0.0 PPM
5-Minute Reading	20.5 %	0.0 %	.000%	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHCO-9F		Temperature: 42°F		
Date/Time: 3-29-19 / 13:25		Barometric Presure: 29.70		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.6 %	0.0%	.000 %	0.0 PPM
1-Minute Reading	20.8 %	0.0%	.000%	0.0 PPM
5-Minute Reading	20.9 %	0.0%	.000 %	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLMH - 8F		Temperature: 42°F		
Date/Time: 3-29-19 / 13:45		Barometric Presure: 29.67		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.0	0.2%	.002 %	0.0 PPM
1-Minute Reading	20.1	0.2%	.002 %	0.0 PPM
5-Minute Reading	20.1	0.1%	.001%	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Mar-2019 to 01-Apr-2019
Report Generated: 04-Apr-2019 2:21:01PM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS001	3/29/2019 10:09:17AM	0.00 0.40	20.00 79.60					
CROSS002	3/29/2019 9:20:46AM	0.00 1.00	20.50 78.50					
CROSS003	3/29/2019 9:31:03AM	0.00 0.20	17.60 82.20					
CROSS004	3/29/2019 9:43:44AM	0.00 0.10	20.60 79.30					
CROSS005	3/29/2019 9:50:23AM	0.00 0.80	18.80 80.40					
CROSS006	3/29/2019 9:56:59AM	0.00 0.10	20.90 79.00					
CROSS007	3/29/2019 10:00:41AM	0.00 0.10	19.30 80.60					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Mar-2019 to 01-Apr-2019
Report Generated: 04-Apr-2019 2:21:01PM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS008	3/29/2019 10:05:51AM	0.00 0.30	19.50 80.20					
CROSS009	3/29/2019 10:17:05AM	0.00 0.40	20.50 79.10					
CROSS010	3/29/2019 10:24:23AM	0.00 1.10	19.60 79.30					
CROSS012	3/29/2019 10:36:03AM	0.00 0.60	20.90 78.50					
CROSS013	3/29/2019 10:40:49AM	0.00 0.40	20.50 79.10					
MH-1----	3/29/2019 2:43:01PM	0.00 0.00	20.90 79.10					
MH-7----	3/29/2019 2:02:00PM	0.00 1.10	19.20 79.70					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Mar-2019 to 01-Apr-2019
Report Generated: 04-Apr-2019 2:21:01PM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
MHCO-9F-	3/29/2019 1:24:33PM	0.00 0.10	20.90 79.00					
MHLD-12C	3/29/2019 2:19:11PM	0.00 0.20	20.60 79.20					
MHLMH-8F	3/29/2019 1:46:24PM	0.10 1.00	20.50 78.40					
MHLMH8G-	3/29/2019 1:12:30PM	0.00 0.40	20.30 79.30					

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MH-1		Temperature: 67°		
Date/Time: 6-18-19 / 13:57		Barometric Presure: 29.64		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	0.0%	.000%	0.0%	0 PPM
1-Minute Reading	0.0%	.000%	0.0%	0 PPM
5-Minute Reading	0.0%	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLD-12C		Temperature: 67°		
Date/Time: 6-18-19 /		Barometric Presure: 29.67		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.0%	.000%	0.0%	0 PPM
1-Minute Reading	20.0%	.000%	0.0%	0 PPM
5-Minute Reading	20.6%	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLMH-BG		Temperature: 67°		
Date/Time: 6-18-19 / 14:36		Barometric Presure: 29.67		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.8	.000%	0.0%	0 PPM
1-Minute Reading	19.8	.000%	0.0%	0 PPM
5-Minute Reading	20.5	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MHCO-9F		Temperature: 67°		
Date/Time: 6-18-19 / 14.46		Barometric Presure: 29.65		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.8	.000%	0.0%	0 PPM
1-Minute Reading	19.9	.000%	0.0%	0 PPM
5-Minute Reading	20.9	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHUMH - BF		Temperature: 67°		
Date/Time: 6-18-19 / 15:02		Barometric Presure: 29.65		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.8%	.000%	0.0%	0 PPM
1-Minute Reading	19.5%	.000%	0.0%	0 PPM
5-Minute Reading	20.7	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH-7		Temperature: 67°		
Date/Time: 6-18-19 / 15:15		Barometric Presure: 29.66		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.1	.000%	0.0%	0 PPM
1-Minute Reading	20.1	.000%	0.0%	0 PPM
5-Minute Reading		.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Jun-2019 to 30-Jun-2019
Report Generated: 02-Jul-2019 7:52:39AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS001	6/18/2019 11:21:59AM	0.00 1.30	19.50 79.20					
CROSS002	6/18/2019 10:26:55AM	0.00 0.60	20.10 79.30					
CROSS003	6/18/2019 10:39:52AM	0.00 1.00	17.10 81.90					
CROSS004	6/18/2019 10:52:13AM	0.00 0.60	20.40 79.00					
CROSS005	6/18/2019 10:57:52AM	0.00 0.40	18.40 81.20					
CROSS006	6/18/2019 11:03:30AM	0.00 0.20	20.70 79.10					
CROSS007	6/18/2019 11:06:50AM	0.00 1.20	15.60 83.20					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Jun-2019 to 30-Jun-2019
Report Generated: 02-Jul-2019 7:52:39AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS008	6/18/2019 11:10:55AM	0.00 1.40	16.90 81.70					
CROSS009	6/18/2019 10:07:19AM	0.00 0.60	19.00 80.40					
CROSS010	6/18/2019 10:14:39AM	0.00 0.70	20.00 79.30					
CROSS011	6/18/2019 9:00:25AM	0.00 1.30	19.70 79.00					
CROSS012	6/18/2019 9:07:33AM	0.00 1.00	20.00 79.00					
CROSS013	6/18/2019 9:10:54AM	0.00 1.20	19.70 79.10					
MH-1----	6/18/2019 1:57:48PM	0.00 0.00	20.90 79.10					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Jun-2019 to 30-Jun-2019
Report Generated: 02-Jul-2019 7:52:39AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
MH-7----	6/18/2019 3:14:42PM	0.00 0.20	20.70 79.10					
MHCO-9F-	6/18/2019 2:45:08PM	0.00 0.30	20.40 79.30					
MHLD-12C	6/18/2019 2:20:40PM	0.00 0.10	20.30 79.60					
MHLMH-8F	6/18/2019 3:02:24PM	0.00 0.30	20.30 79.40					
MHLMH8G-	6/18/2019 2:35:43PM	0.00 0.60	20.10 79.30					

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MHCM18G		Temperature: 68°		
Date/Time: 9-23-19 / 11:05		Barometric Presure: 29.38		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.9%	.000%	0.0%	0 PPM
1-Minute Reading	20.0%	.000%	0.0%	0 PPM
5-Minute Reading	20.3	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHCO-9F		Temperature: 70°		
Date/Time: 9-23-19 / 11:40AM		Barometric Presure:		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.1%	.000%	0.0%	0 PPM
1-Minute Reading	20.1%	.000%	0.0%	0 PPM
5-Minute Reading	20.5	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHCMH - 8F		Temperature: 70°		
Date/Time: 9-23-19 / 12:03		Barometric Presure: 29.39		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	17.5%	.002%	0.2%	0 PPM
1-Minute Reading	17.9%	.002%	0.1%	0 PPM
5-Minute Reading	19.9%	.001%	0.1%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MH-7		Temperature: 70°		
Date/Time: 9-23-19 / 12:15		Barometric Presure: 29.39		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	17.8	.000%	0.0%	0 PPM
1-Minute Reading	18.5	.000%	0.0%	0PPM
5-Minute Reading	18.9	.000%	0.0%	0PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH10-12C		Temperature: 68°		
Date/Time: 9-23-19 / 13:30		Barometric Presure: 29.38		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.4 %	.000%	0.0%	0 PPM
1-Minute Reading	20.6 %	.000%	0.0%	0 PPM
5-Minute Reading	20.9 %	.000%	0.0%	0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH-		Temperature: 68°		
Date/Time: 9-23-19 / 13:45		Barometric Presure: 29.38		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.7	.000%	0.0%	0 PPM
1-Minute Reading	20.8	.000%	0.0%	0 PPM
5-Minute Reading	20.9	.000%	0.0%	0PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Sep-2019 to 30-Sep-2019
Report Generated: 09-Oct-2019 7:15:58AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS001	9/30/2019 9:10:42AM	0.00 2.80	19.10 78.10					
CROSS002	9/27/2019 2:14:03PM	0.00 1.90	17.10 81.00					
CROSS003	9/27/2019 2:26:36PM	0.00 2.80	3.60 93.60					
CROSS004	9/27/2019 2:35:20PM	0.00 3.80	19.60 76.60					
CROSS005	9/27/2019 2:44:09PM	0.00 1.10	20.00 78.90					
CROSS006	9/30/2019 8:56:04AM	0.00 0.40	20.50 79.10					
CROSS007	9/30/2019 9:00:29AM	0.00 1.10	19.00 79.90					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Sep-2019 to 30-Sep-2019
Report Generated: 09-Oct-2019 7:15:58AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS008	9/30/2019 9:04:41AM	0.00 2.10	17.60 80.30					
CROSS009	9/27/2019 1:58:24PM	0.00 1.10	18.10 80.80					
CROSS010	9/27/2019 2:05:14PM	0.00 1.10	19.10 79.80					
CROSS011	9/27/2019 1:44:16PM	0.00 0.50	19.50 80.00					
CROSS012	9/27/2019 1:47:09PM	0.00 0.60	20.20 79.20					
CROSS013	9/27/2019 1:51:52PM	0.00 0.70	19.50 79.80					
MH-1----	9/23/2019 1:43:37PM	0.00 0.10	20.90 79.00					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Sep-2019 to 30-Sep-2019
Report Generated: 09-Oct-2019 7:15:58AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
MH-7----	9/23/2019 12:15:39PM	0.00 1.30	18.40 80.30					
MHCO-9F-	9/23/2019 11:41:30AM	0.00 0.40	20.40 79.20					
MHLD-12C	9/23/2019 1:35:10PM	0.00 0.10	20.90 79.00					
MHLMH-8F	9/23/2019 12:04:42PM	0.10 1.20	19.70 79.00					
MHLMH8G-	9/23/2019 11:07:03AM	0.00 1.40	20.30 78.30					

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MH-1		Temperature: 40°F		
Date/Time: 12-23-19 / 14:33		Barometric Presure: 29.47		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.4	.000%	0.0%	0.0 PPM
1-Minute Reading	20.6	.000%	0.0%	0.0 PPM
5-Minute Reading	20.9	.000%	0.0%	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLD-12C		Temperature: 40°F		
Date/Time: 12-23-19 / 14.44		Barometric Presure: 29.46		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.6%	.000%	0.0%	0.0PPM
1-Minute Reading	20.6%	.000%	0.0%	0.0PPM
5-Minute Reading	20.8%	.000%	0.0%	0.0PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH-7		Temperature: 40°F		
Date/Time: 12-23-19 / 14:56		Barometric Presure:		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	19.9%	.001%	0.1%	0.0PPM
1-Minute Reading	19.9%	.000%	0.0%	0.0PPM
5-Minute Reading	20.9%	.000%	0.0%	0.0PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

MANHOLE STRUCTURE SCREENING REPORT
WMDSM - CROSSROADS, NORRIDGEWOCK, MAINE

Manhole structure: MHLMH8G		Temperature: 40° F		
Date/Time: 12-27-19 / 13:31		Barometric Presure: 29.52		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.0	.004%	0.1 %	0.0 PPM
1-Minute Reading	20.1 %	.001%	0.1 %	0.0 PPM
5-Minute Reading	20.4	.000%	0.0 %	0.0PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MH CO- 9F		Temperature: 40°F		
Date/Time: 12-27-19 / 13:45		Barometric Presure: 29.52		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	20.1	.001%	0.1 %	0.0 PPM
1-Minute Reading	20.3	.000%	0.0%	0.0PPM
5-Minute Reading	20.8	.000%	0.0 %	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Manhole structure: MHLMH- 8F		Temperature: 40° F		
Date/Time: 12-27-19 / 14:18		Barometric Presure: 29.47		
READINGS	**%O2**	**% LEL**	**CH4 %**	**H2S**
Peak Reading	14.6%	.004%	0.4%	0.0 PPM
1-Minute Reading	14.8%	.003%	0.3%	0.0PPM
5-Minute Reading	16.1 %	.001%	0.1 %	0.0 PPM
Comments: **5-Minute readings and H2S readings taken with RKI-GX-2003**				

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Dec-2019 to 31-Dec-2019
Report Generated: 02-Jan-2020 11:37:53AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS001	12/23/2019 10:51:39AM	0.00 0.50	18.50 81.00					
CROSS002	12/23/2019 9:57:48AM	0.00 0.80	18.00 81.20					
CROSS003	12/23/2019 10:09:17AM	0.00 1.70	16.20 82.10					
CROSS004	12/23/2019 10:20:00AM	0.00 1.60	20.00 78.40					
CROSS005	12/23/2019 10:27:31AM	0.00 0.80	17.80 81.40					
CROSS006	12/23/2019 10:33:01AM	0.00 0.50	20.00 79.50					
CROSS007	12/23/2019 10:38:21AM	0.00 0.50	18.10 81.40					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Dec-2019 to 31-Dec-2019
Report Generated: 02-Jan-2020 11:37:53AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
CROSS008	12/23/2019 10:43:48AM	0.00 0.50	18.60 80.90					
CROSS009	12/23/2019 9:22:34AM	0.00 0.30	20.90 78.80					
CROSS010	12/23/2019 9:29:28AM	0.00 0.30	18.60 81.10					
CROSS011	12/23/2019 9:08:38AM	0.00 0.20	19.50 80.30					
CROSS012	12/23/2019 9:11:30AM	0.00 0.20	20.00 79.80					
CROSS013	12/23/2019 9:15:47AM	0.00 0.30	20.40 79.30					
MH-1----	12/23/2019 2:32:38PM	0.00 0.40	20.90 78.70					

Historical LFG Report (Basic LFG): WM Disp Services of ME - Crossroads

Range: 01-Dec-2019 to 31-Dec-2019
Report Generated: 02-Jan-2020 11:37:53AM

Well ID	Date/Time	CH4 (%) CO2 (%)	O2 (%) Bal (%)	Initial Gas Temp Adjusted Gas Temp	Initial S.P. ("H2O) System Pressure ("H2O)	Adj. S.P. ("H2O)	Initial Flow Rate (SCFM) Adjusted Flow Rate (SCFM)	Comments
MH-7----	12/23/2019 2:57:47PM	0.00 0.10	20.90 79.00					
MHCO-9F-	12/23/2019 1:46:15PM	0.00 0.20	20.50 79.30					
MHLD-12C	12/23/2019 2:45:03PM	0.00 0.20	20.80 79.00					
MHLMH-8F	12/23/2019 2:18:06PM	0.10 1.00	20.60 78.30					
MHLMH8G-	12/23/2019 1:33:03PM	0.10 0.60	20.20 79.10					

APPENDIX M

Report on Statistical Analysis of 2019 Groundwater Quality Results - Crossroads Landfill

STATISTICAL ANALYSIS OF
2019 GROUNDWATER QUALITY RESULTS
CROSSROADS LANDFILL
Norridgewock, Maine

Prepared for:

Waste Management Disposal Services of Maine

Prepared by:

EAGON & ASSOCIATES, INC.
Worthington, Ohio

March 2020

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Table 4. Summary of Interwell Statistical Testing Results

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Attachment B. Phase 11 and 12 Interwell Statistical Analysis Results
Attachment C. ORP Graphs – Linear Regression with 99% Confidence Bands
Attachment D. Time-Series Graphs

STATISTICAL ANALYSIS OF
2019 GROUNDWATER QUALITY RESULTS
CROSSROADS LANDFILL

INTRODUCTION

Statistical analyses have been performed for the Crossroads Landfill following the statistical program submitted to the Maine Department of Environmental Protection (MEDEP) in June 2017 (*Statistical Analysis Program for Groundwater Quality Monitoring, June 2017)*. The June 2017 revisions to the program were prepared in order to address MEDEP comments dated May 19, 2017. This statistical program has been designed using both interwell and intrawell statistical methods that will provide for the identification of statistically significant trends and statistically significant water-quality results above background to meet the requirements of Chapter 405(3)B. The most recent groundwater monitoring event was performed in November and December 2019 and data from this event are statistically analyzed herein. Figure 1 displays the locations of the monitoring wells at the Crossroads Landfill and Table 1 lists the wells in the monitoring program. Upgradient phreatic zone well W11-1E was abandoned in October 2018 and the replacement well was sampled for the first time during the November 2018 event. The water-quality data from the replacement well were reviewed and found to be consistent with the water-quality data from W11-1E. Therefore, the groundwater quality data for the two wells have been combined and analyzed herein as well W11-1E/ER.

STATISTICAL PROGRAM

General Conditions

Statistical analyses have been performed using the DUMPStat statistical analysis software for all of the wells listed on Table 1 and for the parameters listed on Table 2. All analyses have been performed consistent with the USEPA Unified Guidance document (*Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, USEPA 2009*) and ASTM statistical guidance (*Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs, ASTM Standard D6312-98, 1998*). The

following statistical methodology has been used to statistically analyze the 2019 water-quality results: Intrawell Mann-Kendall trend analysis, interwell parametric and nonparametric prediction limits, and linear regression with 99% confidence bands (ORP only).

STATISTICAL ANALYSIS RESULTS

Intrawell Mann-Kendall Trend Analysis

Attachment A contains the results of the intrawell Mann-Kendal trend analyses and is organized by monitored unit. Only wells/parameters having statistically significant upward or downward trends are displayed in Attachment A. At the top of each graph it is noted whether the statistically significant trend is upward or downward. The Mann-Kendall analyses have been performed for all wells included on Table 1 and the parameters listed on Table 2, with the exception of ORP and VOCs.

The test has been performed at the 95% confidence level with alpha = 0.05 being split between each tail resulting in an actual 97.5% overall confidence level. As required by MEDEP, the time-series graphs for datasets having fewer than 10 detected results have been redacted from the trend testing output included in Attachment A, as indicated by a red line through the graphs. Starting in 2018, the parameters that are required to be collected annually have been added to the tri-annual event parameter list. For those parameters, it is still necessary to use a 10-year moving window to perform the Mann-Kendall analyses in order to maximize the amount of detected results included in the window. It is possible that some wells/parameters have less than 10 detected results within this 10-year window; therefore, these results have been redacted as described above. For the tri-annual parameters, a 5-year moving window has been used to perform the Mann-Kendall analyses. Any well/parameter having less than 10 detected results within the 5-year window has been redacted. Table 3 is a summary of wells/parameters having statistically significant trends. Identified trends are discussed in the 2019 groundwater report.

Interwell Prediction Limits

Interwell prediction limits have been used to compare up- and downgradient water quality for Phases 11 and 12. Due to the spatial and hydrogeologic variability in the vicinity of Phases 1-10, interwell statistical analysis will not be performed on groundwater quality from these areas consistent with the statistical program for the site (*Statistical Analysis Program for Groundwater Quality Monitoring, June 2017*). A minimum of 8 background results are necessary to compute the normal, lognormal, and nonparametric prediction limits. No prediction limit analyses have been performed for parameters having less than 8 background results. Water-quality data from the upgradient wells in Phases 11 and 12 have been pooled to calculate the interwell prediction limits for the Phreatic and Till monitoring units for the parameters shown on Table 2. Normality testing has been performed using the multiple group version of the Shapiro-Wilks normality test. Outlier testing was performed using Dixon's outlier test and identified outliers have been evaluated on an individual basis to determine if the results are appropriate for inclusion in the statistical background period. Outlier analyses have been performed for the results contained in the interwell background periods which is comprised of data from the last 5 years as described in the statistical program.

Any identified outliers are listed on the tables included in Attachment B and any outliers that have been excluded are illustrated on the trend plots in Attachment D. The following outlier has been excluded from the upgradient background pool: 5/2015 chloride result of 4.2 mg/l for well W11-2E (Phase 11, upgradient phreatic well, low outlier). This result has been excluded as an extreme low value that could bias the background mean and standard deviation used in the determination of the prediction limits.

A 5-year moving window approach has been utilized so that the interwell prediction limits are representative of current upgradient groundwater quality conditions. The highest nondetect result (reporting limit) has been used to substitute for nondetect results in background for all statistical analyses.

The following rules apply to the calculation of the interwell prediction limits:

1. If the detection frequency for the pooled upgradient data set is greater than 50%:
   a. If the data are normally distributed, normal prediction limits have been computed.
   b. If the data are lognormally distributed, lognormal prediction limits have been computed.
   c. If neither normally nor lognormally distributed, a nonparametric prediction limit has been computed.

2. If the background detection frequency is less than 50%, a nonparametric prediction limit has been computed.

The most recent result for each well/parameter has been compared to the prediction limits. Table 4 displays the wells and parameters that exceed the prediction limits. Attachment B includes the results of the interwell prediction limit analyses for the till and phreatic zone wells in Phases 11 and 12. These results are further discussed in the 2019 groundwater report.

Volatile Organic Compound Results

A monitoring measurement at or above the laboratory specific practical quantification limit (PQL) for a volatile organic compound (VOC) is considered a statistically significant increase. Confirmatory resampling may be conducted in the event that a result exceeds the PQL for a VOC. If the resample or reanalysis does not confirm a statistically significant increase, the well will continue in detection monitoring. There were no VOC results detected at or above the PQL for the 2019 tri-annual events.

LINEAR REGRESSION AND TIME-SERIES ANALYSIS

For the field parameter ORP, linear regression analyses have been performed whereby 99% confidence bands have been applied to each set of data. A 5-year moving window approach

has been used for analysis of the ORP data. Attachment C contains the graphs for the ORP analyses organized by zone and gradient. The following wells display results from the most recent tri-annual event that fall outside of the 99% confidence bands: 310AW and 617A (upgradient phreatic wells); 629E, 630E, W9-1E, W11-3E, W11-6E, and W12-4E (downgradient phreatic wells); W12-1B (upgradient till well); 626B, 629B, and 1041B (downgradient till wells); and 628A (downgradient bedrock well). Time-series graphs with applicable protection standards are presented for each well/parameter in Attachment D.

SUMMARY

The intrawell Mann-Kendall trend test has been performed for all monitoring wells in the detection monitoring system. Interwell prediction limit analyses have been performed for the downgradient wells in Phases 11 and 12 in the Phreatic and Till monitoring units. A minimum of 8 background results were used to perform the interwell prediction limit analyses. Outlier testing was performed prior to calculation of the interwell prediction limits and extreme results have been excluded. Groundwater quality data from the upgradient wells in Phases 11 and 12 have been pooled to calculate the prediction limits. Linear regression with 99% confidence bands has been used to statistically analyze the data for ORP.

The results of the statistical analyses contained in this report are discussed in detail within the 2019 groundwater report for the site.

FIGURES

LEGEND

- APPROXIMATE WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. PROPERTY BOUNDARY
- STREAM
- ROAD
- BUILDING
- 1008BR — GROUNDWATER MONITORING WELL
- SW-9 — SURFACE WATER MONITORING SAMPLE POINTS
- PHASE 1-6 — APPROXIMATE LANDFILL PHASE BOUNDARY

NOTES

1) IN OCTOBER 2018, MONITORING WELL W11-1E WAS ABANDONDED AND REPLACED WITH MONITORING WELL W11-1ER.

REFERENCES

1) BASE PLAN PREPARED FROM PLANS ENTITLED "TOPOGRAPHIC PLAN SHOWING WETLANDS DELINEATION, NORRIDGEWOCK FACILITY, SHEETS 1-13," PREPARED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE; PHOTO DATED 10/20/94 WITH GROUND CONTROL PROPERTY LINE INFORMATION, AND MAPPING UPDATE PROVIDED BY SACKETT & BRAKE SURVEY, INC. OF SKOWHEGAN, MAINE IN 1995; ORIGINAL SCALE: 1" = 100'.

2) VERTICAL DATUM IS USGS MEAN SEA LEVEL, HORIZONTAL DATUM IS ESTABLISHED SITE DATUM.

800 0 800
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE
TRIANNUAL GROUNDWATER SAMPLING REPORT
NORRIDGEWOCK, MAINE

TITLE
GROUNDWATER AND SURFACE WATER SAMPLING LOCATION MAP

GOLDER

PROJECT No.		19117249	FILE No.	19117214MAR19-2.dwg
DESIGN	DFS	03/12/19	SCALE	AS SHOWN
CADD	RWC	03/12/19	REV.	0
CHECK	DFS	03/12/19		
REVIEW	APTM	03/12/19		

FIGURE 1

Drawing file: J:\Drawings\1998\983-6836_WMDSM\TAR\MAR19\19117249MAR19-2.dwg Mar 12, 2019 - 12:44pm

TABLES

TABLE 1. MONITORING SYSTEM SUMMARY
CROSSROADS LANDFILL

Monitoring Wells - Phases 1 through 10 Statistical Methods: Mann-Kendall Trend Analysis, Linear Regression/Confidence Bands (ORP only)					
Till Zone		**Bedrock Zone**		**Phreatic Zone**	
Upgradient	**Downgradient**	**Upgradient**	**Downgradient**	**Upgradient**	**Downgradient**
310C	1008BR2	310D	104D	310AW	1008ER2
	101C	617C	106DR	617A	106WR
	1040B		107CR		618AR
	1041B		1134B		620A
	104C		627A		629E
	106CR		628A		630E
	107BR				W9-1E
	618CR				W9-2E
	620C				
	624B				
	626B				
	629B				
	630B				
Monitoring Wells - Phases 11 and 12 **Statistical Methods: Interwell Prediction Limits, Mann-Kendall Trend Analysis, Linear Regression/Confidence Bands (ORP only)**					
Till Zone		**Bedrock Zone**		**Phreatic Zone**	
Upgradient	**Downgradient**	**Upgradient**	**Downgradient**	**Upgradient**	**Downgradient**
W11-1B	W11-5B	N/A	N/A	W11-1E/ER	W11-3E
W12-1B	W12-4B			W11-2E	W11-4E
				W12-1E	W11-5E
				W12-2E	W11-6E
					W12-3E
					W12-4E
					W12-5E

TABLE 2. STATISTICAL PARAMETER AND METHOD SUMMARY
CROSSROADS LANDFILL

Constituent	Mann-Kendall Trend Analysis	Interwell Prediction Limits	Linear Regression with 99% Confidence Bands	Detections at or Above PQL
Alkalinity	X	X		
Aluminum	X			
Ammonia	X			
Arsenic	X	X		
Barium	X			
Calcium	X	X		
Chloride	X	X		
Chromium	X			
Copper	X			
Dissolved Oxygen	X	X		
Iron	X	X		
Lead	X	X		
Magnesium	X	X		
Manganese	X	X		
Nitrogen, nitrate	X	X		
ORP			X	
pH	X	X		
Potassium	X	X		
Sodium	X	X		
Specific Conductance	X	X		
Sulfate	X	X		
Total Dissolved Solids	X	X		
Total Organic Carbon	X	X		
Vanadium	X			
Zinc	X			
VOCs				X

TABLE 3.
SUMMARY OF MANN-KENDALL TREND TESTING RESULTS
CROSSROADS LANDFILL

	Upgradient Wells												
Well No.	**Alkalinity**	**Aluminum**	**Ammonia**	**Arsenic**	**Barium**	**Calcium**	**Chloride**	**Chromium**	**Copper**	**Dissolved Oxygen**	**Iron**	**Lead**	**Magnesium**
310AW							+						
310C						+	+						
310D										+			
617A													
617C	-	-		+		-							-
W11-1B				-			+						-
W11-1E/ER													
W11-2E					+		+						
W12-1B													
W12-1E													
W12-2E						-							-

+ = Statistically Significant Increasing Trend

- = Statistically Significant Decreasing Trend

TABLE 3.
SUMMARY OF MANN-KENDALL TREND TESTING RESULTS
CROSSROADS LANDFILL

	Upgradient Wells										
Well No.	**Manganese**	**Nitrogen, Nitrate**	**pH**	**Potassium**	**Sodium**	**Specific Conductance**	**Sulfate**	**TDS**	**TOC**	**Vanadium**	**Zinc**
310AW		+		-		+					
310C		+				+		+			
310D						+		+			
617A	-										
617C			-	-	-	-		-	-		
W11-1B					-						
W11-1E/ER											
W11-2E						+					
W12-1B						+	-				
W12-1E											
W12-2E											

+ = Statistically Significant Increasing Trend

- = Statistically Significant Decreasing Trend

TABLE 3.
SUMMARY OF MANN-KENDALL TREND TESTING RESULTS
CROSSROADS LANDFILL

	Downgradient Wells												
Well No.	**Alkalinity**	**Aluminum**	**Ammonia**	**Arsenic**	**Barium**	**Calcium**	**Chloride**	**Chromium**	**Copper**	**Dissolved Oxygen**	**Iron**	**Lead**	**Magnesium**
1008BR2													
1008ER2													
101C													
1040B													
1041B	-					-	-						
104C					-					+	-		
104D										+	-		-
106CR											+		
106DR						+	-						
106WR													
107BR	+				+	+	+				+		+
107CR	-					-							-
1134B													
618AR										+			
618CR				-	+								
620A											-		
620C													
624B	+				+	+	+						+
626B										-			
627A										+			
628A													
629B										+			
629E					-								
630B					+								
630E	-					+	-			+			
W11-3E	+				+								
W11-4E	+					+				+			+
W11-5B													
W11-5E							-						
W11-6E	-												
W12-3E					-								
W12-4B	-												
W12-4E					-		-						-
W12-5E					-								
W9-1E						+	-						
W9-2E													

+ = Statistically Significant Increasing Trend
- = Statistically Significant Decreasing Trend

TABLE 3.
SUMMARY OF MANN-KENDALL TREND TESTING RESULTS
CROSSROADS LANDFILL

	Downgradient Wells										
Well No.	**Manganese**	**Nitrogen, Nitrate**	**pH**	**Potassium**	**Sodium**	**Specific Conductance**	**Sulfate**	**TDS**	**TOC**	**Vanadium**	**Zinc**
1008BR2		+			-	+					
1008ER2				+	-						
101C											
1040B							+				
1041B											
104C											
104D	-										
106CR							+				
106DR				-	-	+		+			
106WR											
107BR	+		-	+	+	+		+			
107CR				-	-	-		-			
1134B						+					
618AR						+					
618CR			-		-						
620A						+					
620C						+					
624B	+		-			+	+	+			
626B		-									
627A			-			+					
628A											
629B											
629E		+	-								
630B					-						
630E					-				-		
W11-3E						+					
W11-4E				+		+		+			
W11-5B						+					
W11-5E						+					
W11-6E		+									
W12-3E						+					
W12-4B	-			-			-				
W12-4E					+						
W12-5E											
W9-1E						+					
W9-2E						+					

+ = Statistically Significant Increasing Trend

- = Statistically Significant Decreasing Trend

TABLE 4.
SUMMARY OF INTERWELL STATISTICAL ANALYSES
CROSSROADS LANDFILL

	Downgradient Wells - Phases 11 and 12								
	Till Zone		Phreatic Zone						
Parameters	W11-5B	W12-4B	W11-3E	W11-4E	W11-5E	W11-6E	W12-3E	W12-4E	W12-5E
Alkalinity				X			X		X
Arsenic					X				
Calcium			X	X		X	X		X
Chloride									
Dissolved Oxygen			X						
Iron									
Lead									
Magnesium				X					
Manganese									
Nitrogen, Nitrate			X				X	X	X
pH									
Potassium				X					X
Sodium									
Specific Conductance				X			X		X
Sulfate				X					
TDS									
TOC									

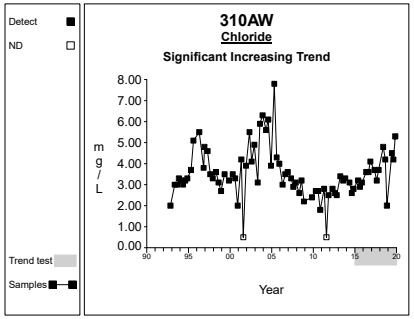
X = Statistically Significant Result

ATTACHMENT A.

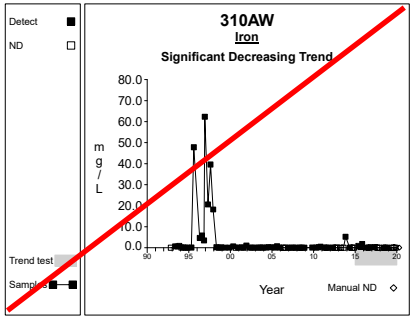
MANN-KENDALL TREND TESTING RESULTS

Significant Trends for Upgradient Phreatic Wells – Phases 1 through 10

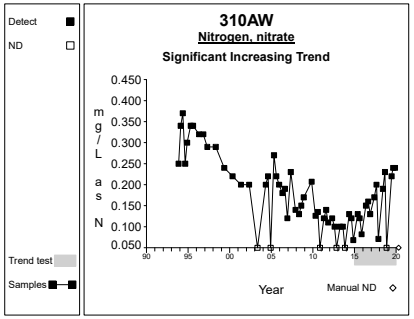
Time Series



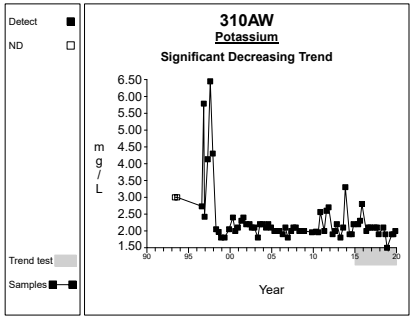
Graph 5



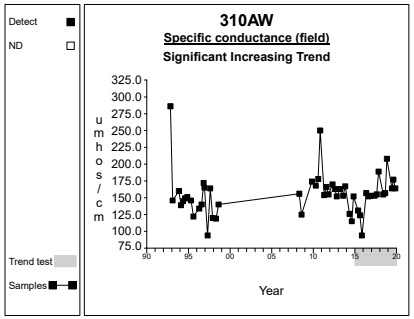
Graph 7



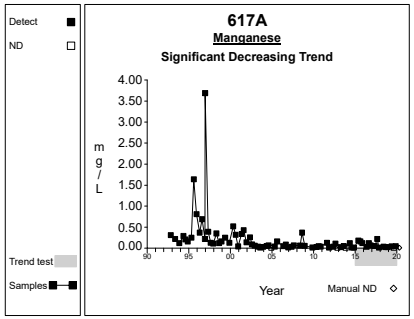
Graph 11



Graph 13

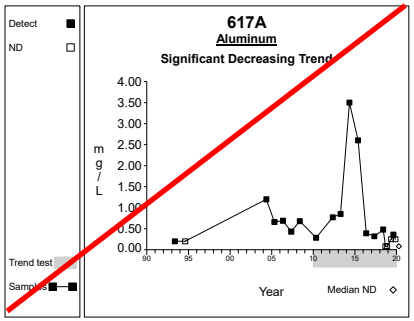


Graph 16



Graph 28

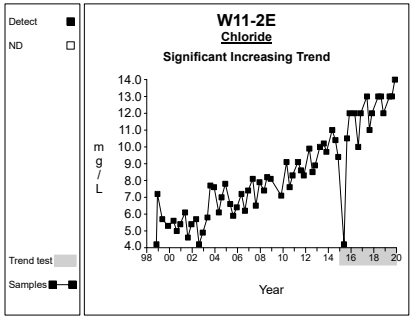
Time Series



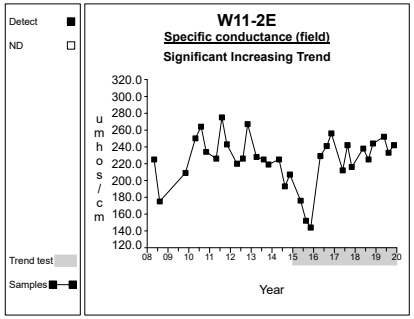
Graph 7

Significant Trends for Upgradient Phreatic Wells – Phases 11 and 12

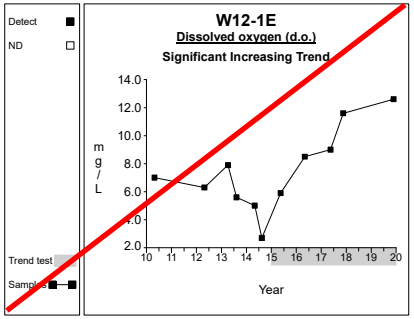
Time Series



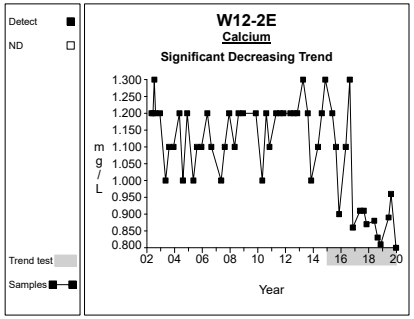
Graph 23



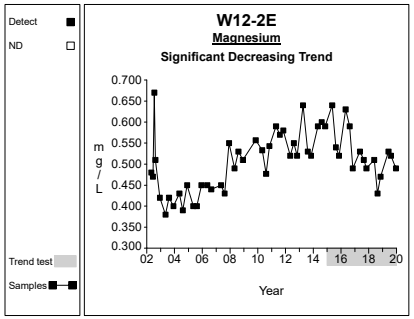
Graph 34



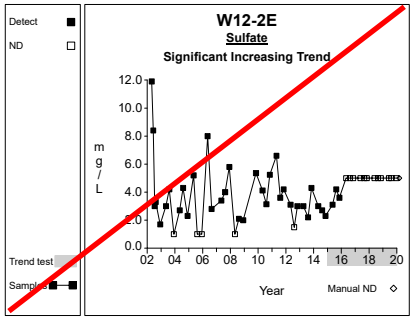
Graph 42



Graph 58

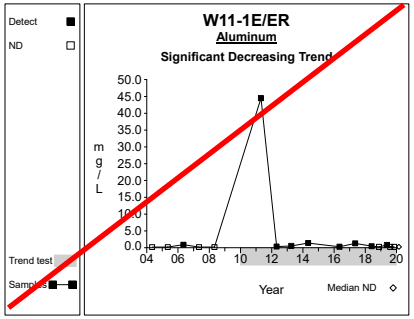


Graph 63

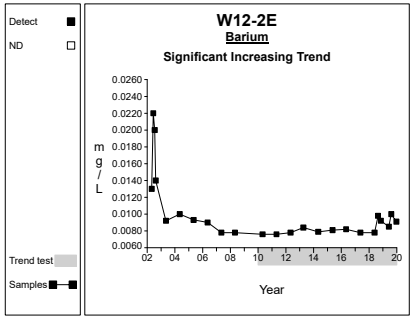


Graph 71

Time Series



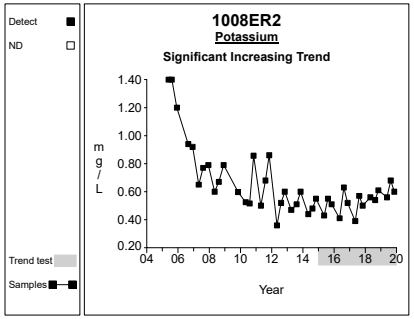
Graph 1



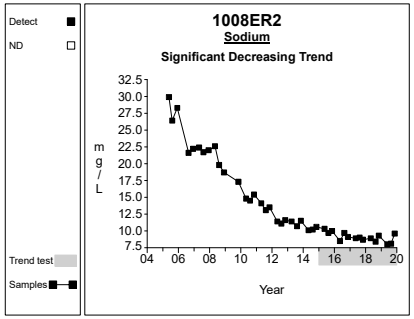
Graph 20

Significant Trends for Downgradient Phreatic Wells

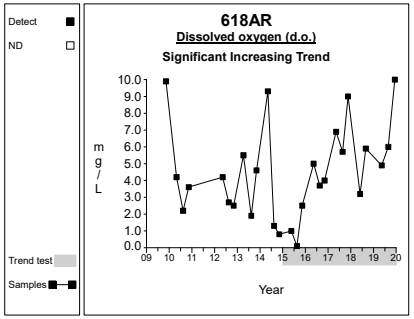
Time Series



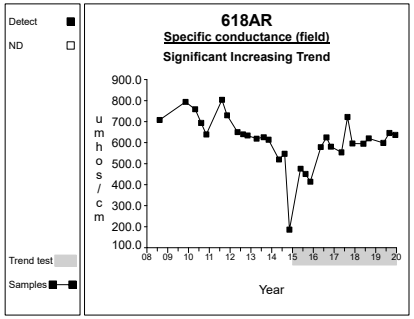
Graph 13



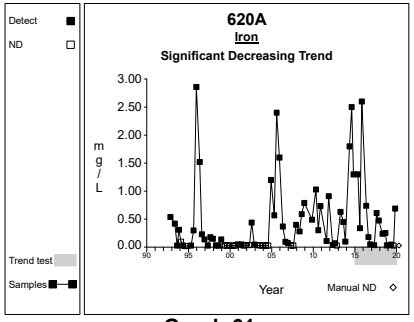
Graph 15



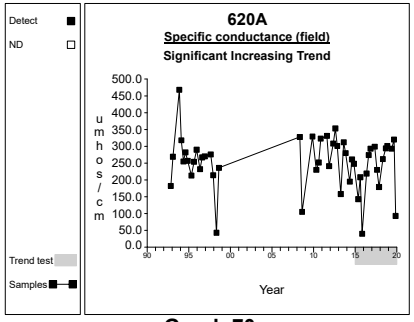
Graph 42



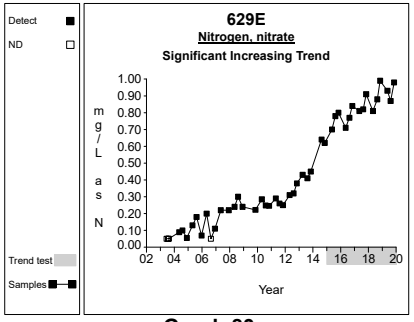
Graph 52



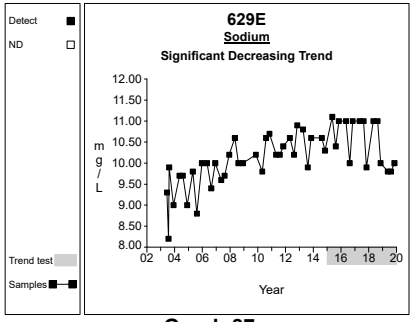
Graph 61



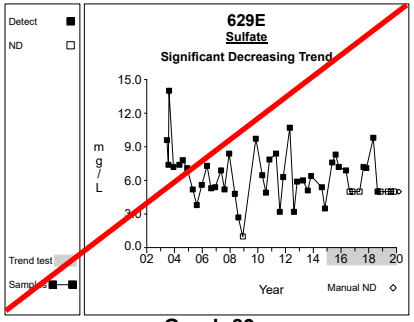
Graph 70



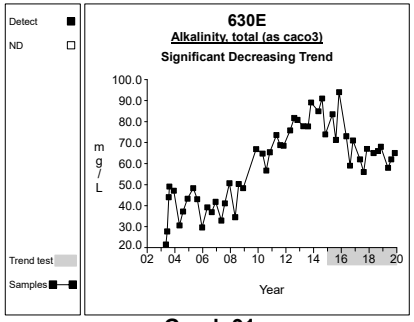
Graph 83



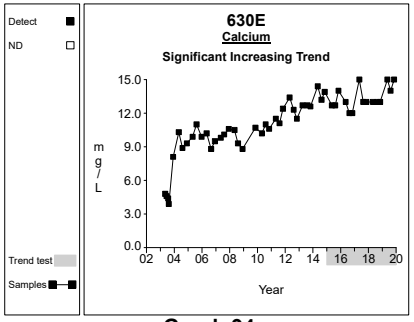
Graph 87



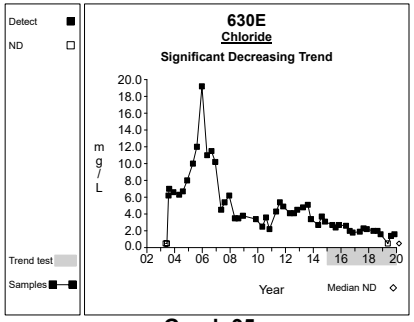
Graph 89



Graph 91

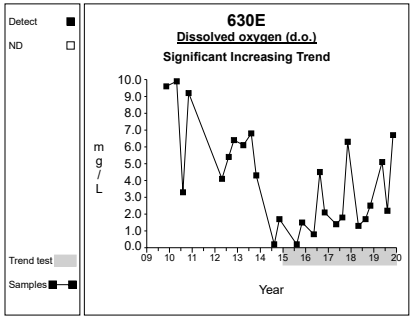


Graph 94

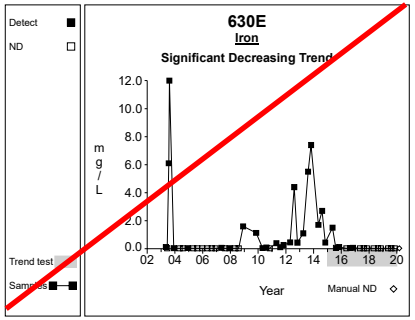


Graph 95

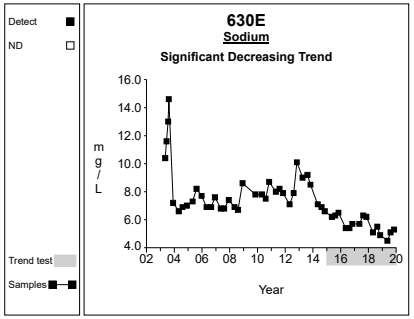
Time Series



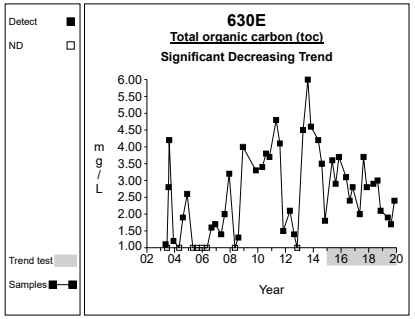
Graph 96



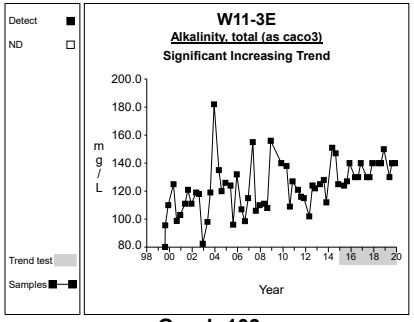
Graph 97



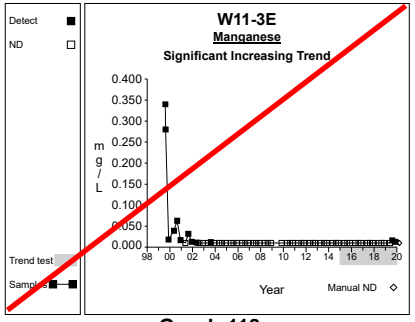
Graph 105



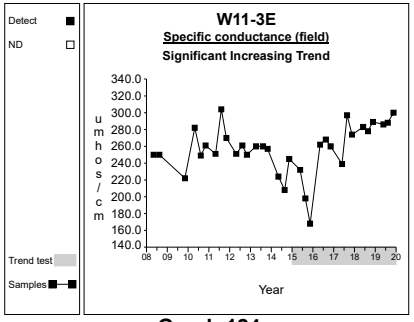
Graph 108



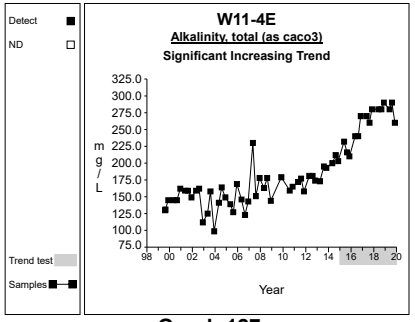
Graph 109



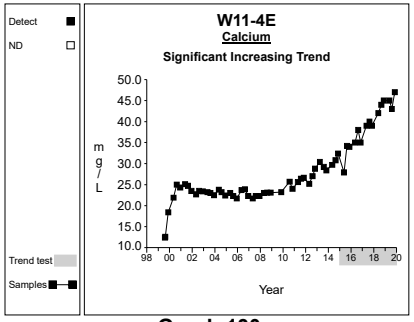
Graph 118



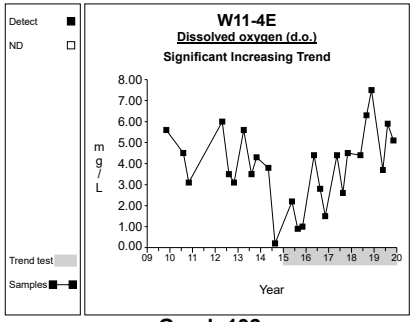
Graph 124



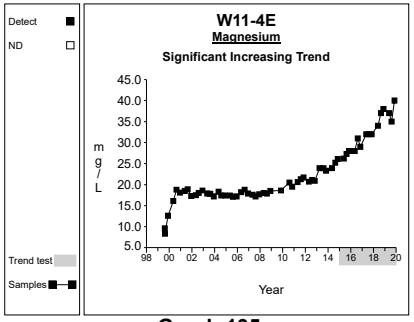
Graph 127



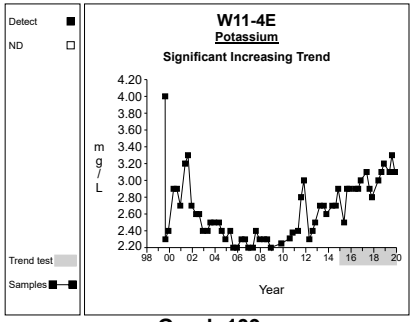
Graph 130



Graph 132

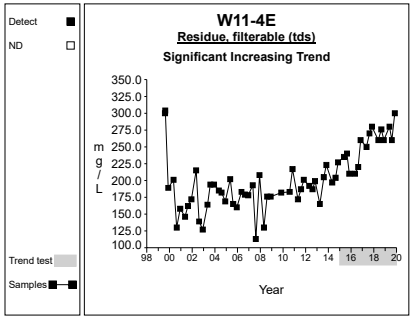


Graph 135

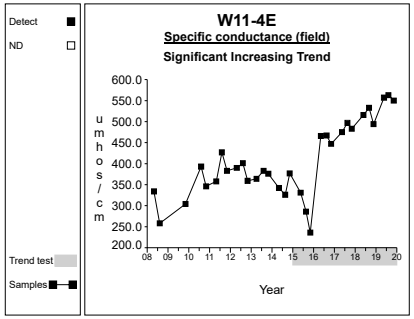


Graph 139

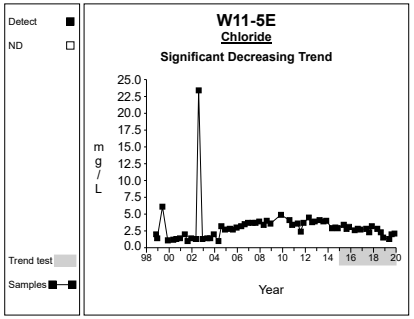
Time Series



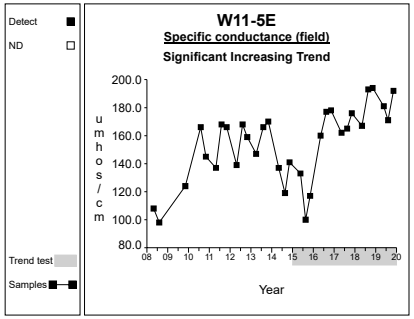
Graph 140



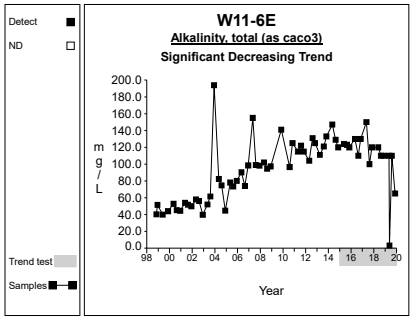
Graph 142



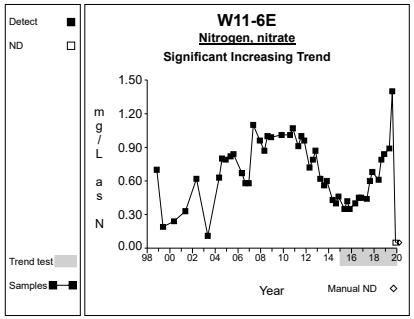
Graph 149



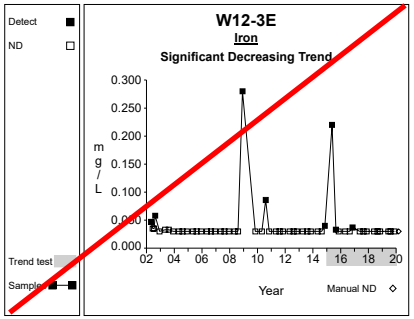
Graph 160



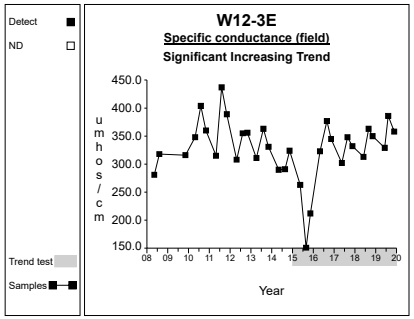
Graph 163



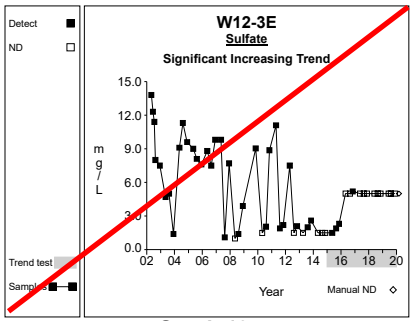
Graph 173



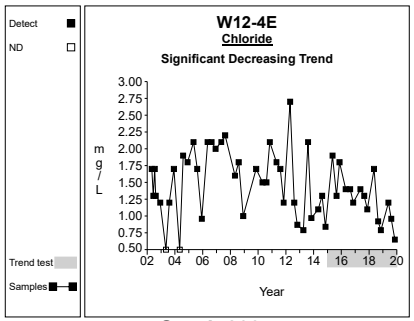
Graph 187



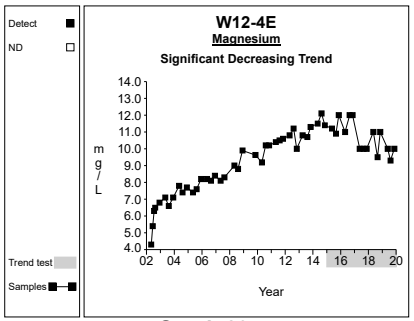
Graph 196



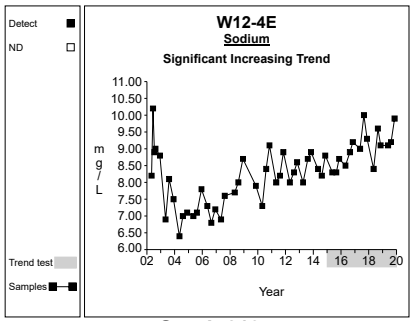
Graph 197



Graph 203

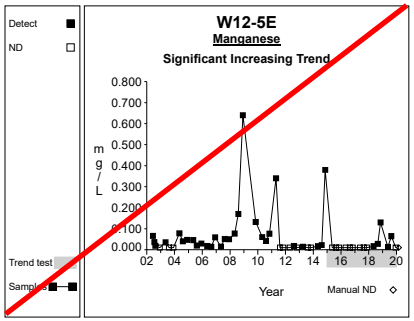


Graph 207

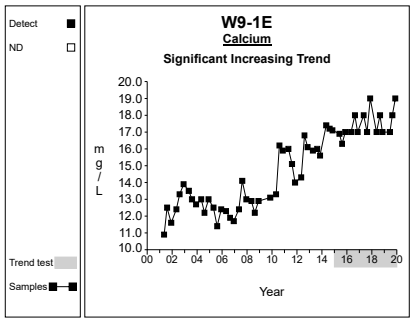


Graph 213

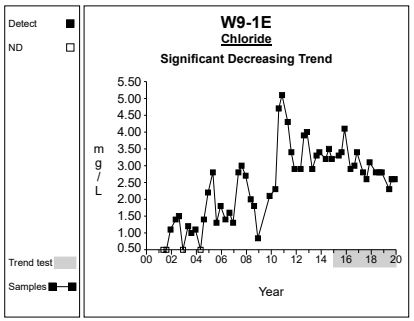
Time Series



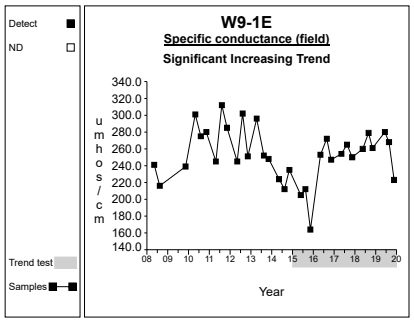
Graph 226



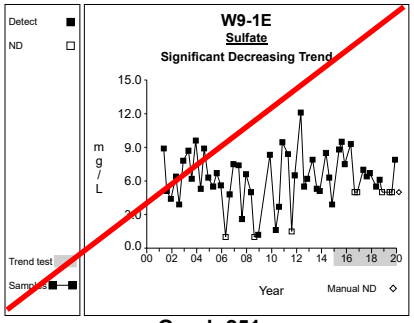
Graph 238



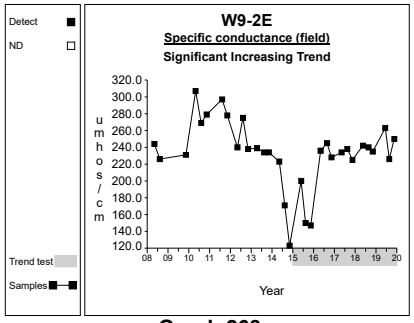
Graph 239



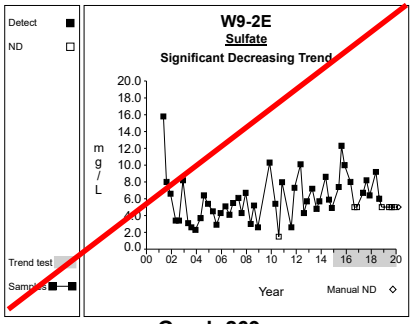
Graph 250



Graph 251

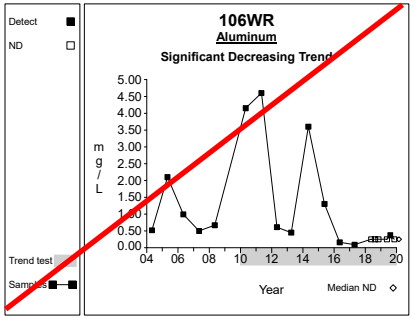


Graph 268

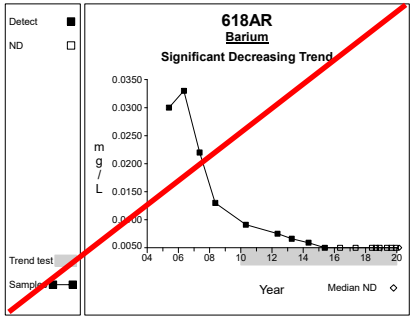


Graph 269

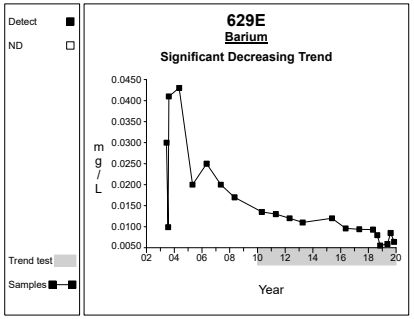
Time Series



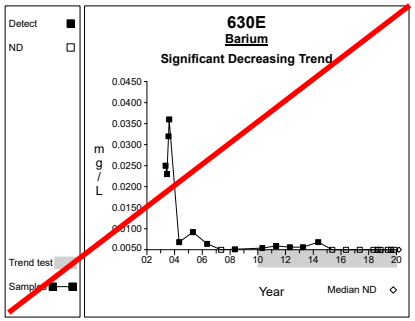
Graph 7



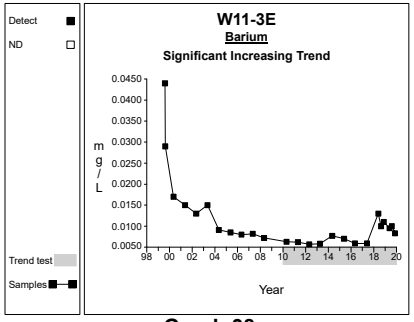
Graph 14



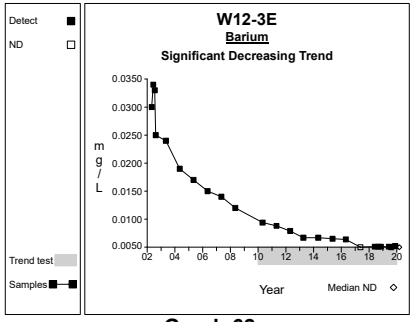
Graph 26



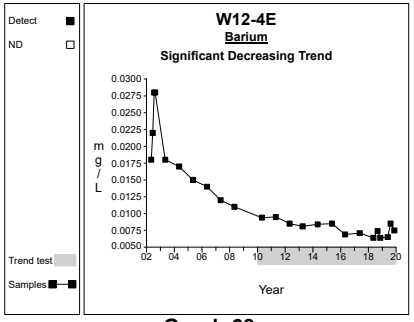
Graph 32



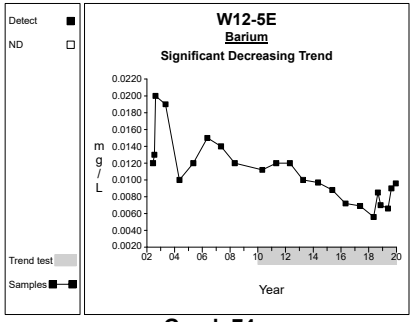
Graph 38



Graph 62



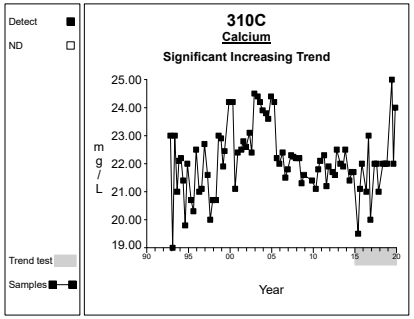
Graph 68



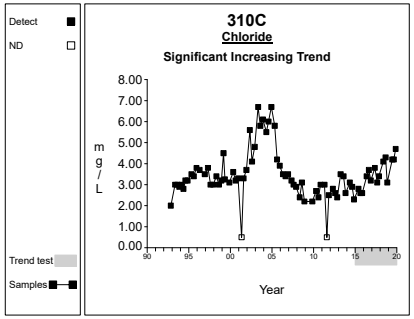
Graph 74

Significant Trends for Upgradient Till Wells –
Phases 1 through 10

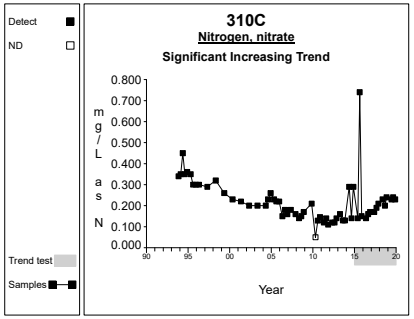
Time Series



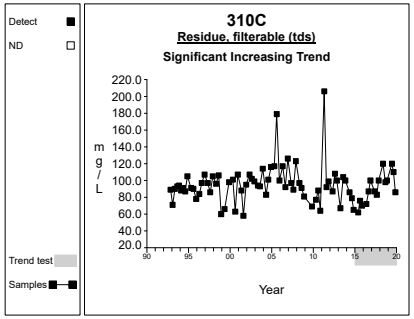
Graph 4



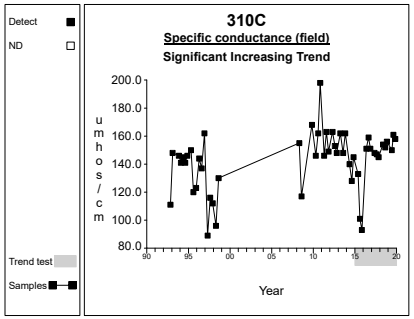
Graph 5



Graph 11



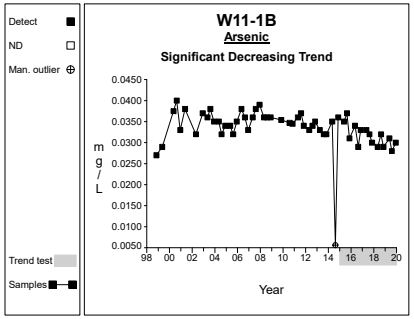
Graph 14



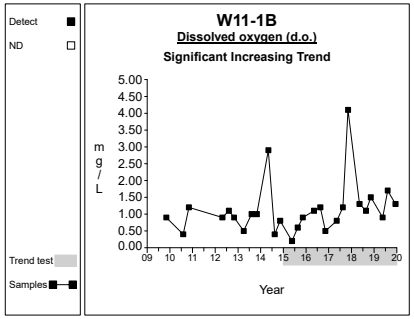
Graph 16

Significant Trends for Upgradient Till Wells – Phases 11 and 12

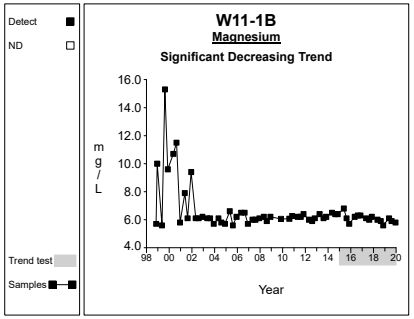
Time Series



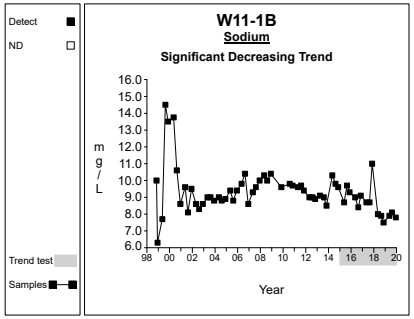
Graph 3



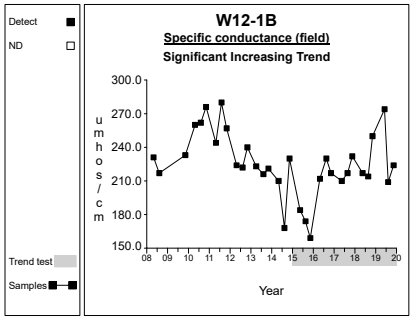
Graph 6



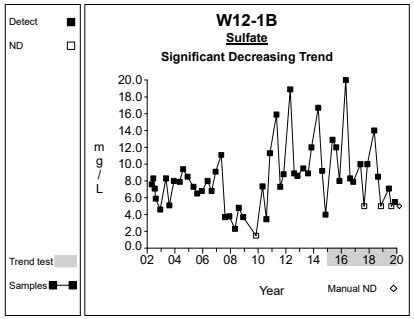
Graph 9



Graph 15



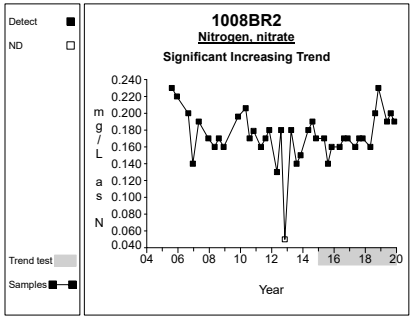
Graph 34



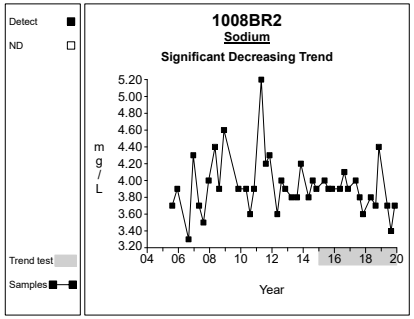
Graph 35

Significant Trends for Downgradient Till Wells

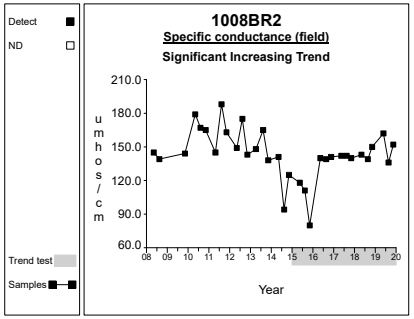
Time Series



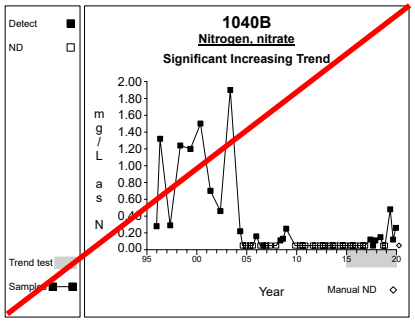
Graph 11



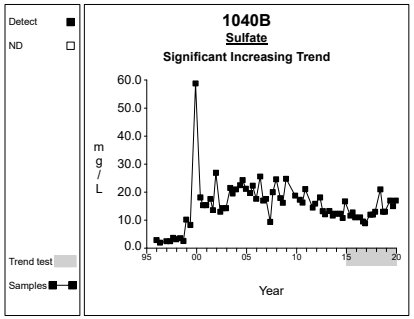
Graph 15



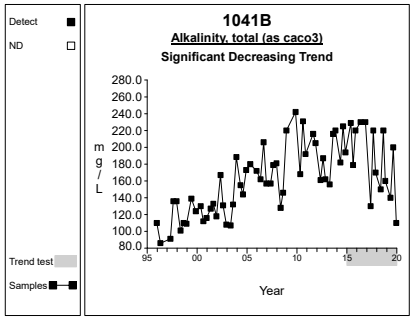
Graph 16



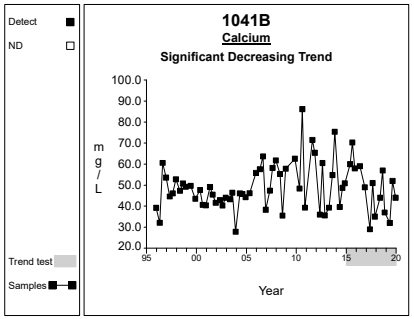
Graph 47



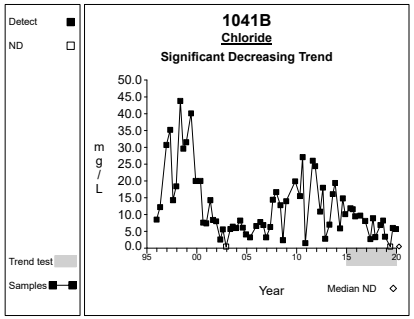
Graph 53



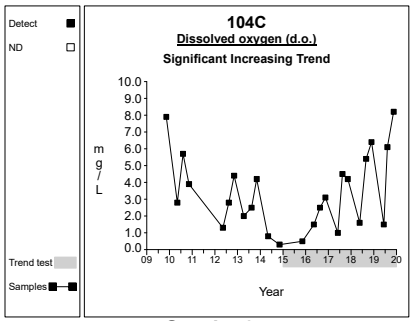
Graph 55



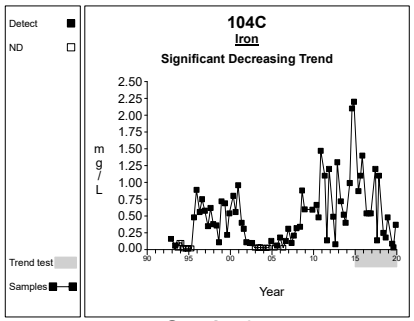
Graph 58



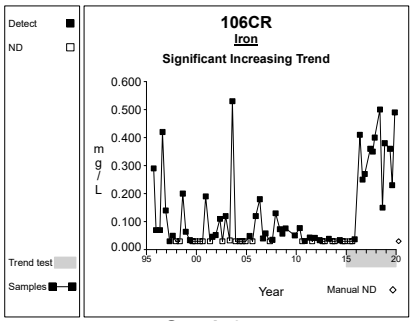
Graph 59



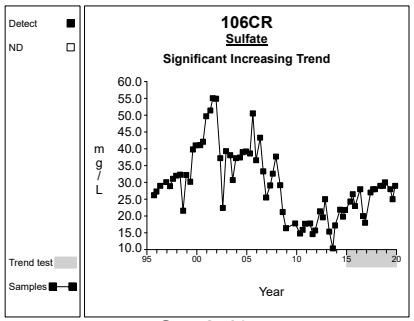
Graph 78



Graph 79

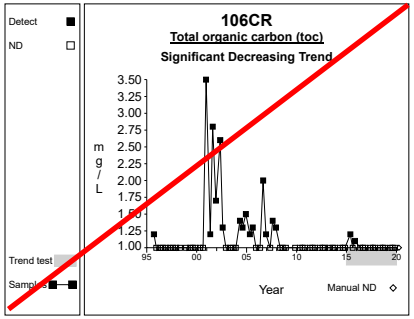


Graph 97

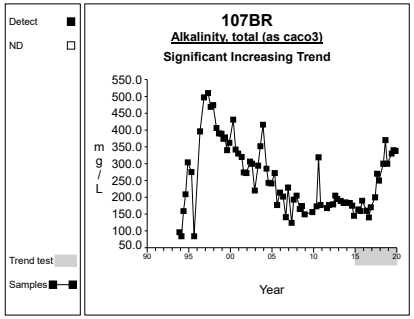


Graph 107

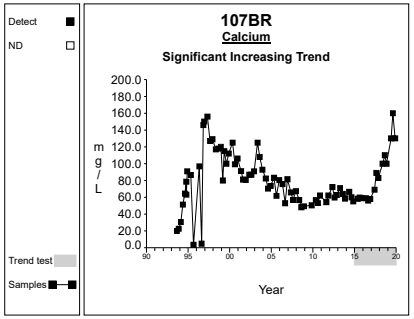
Time Series



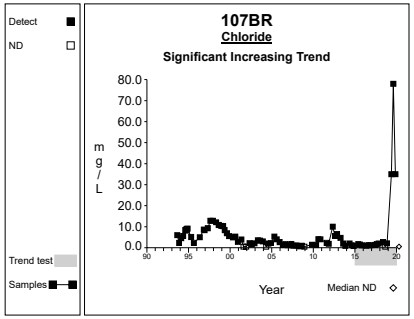
Graph 108



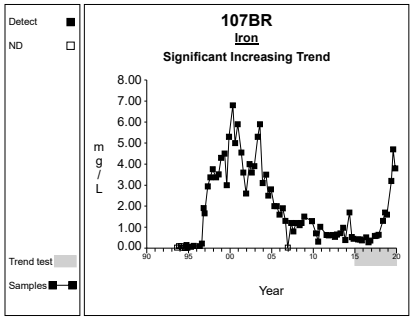
Graph 109



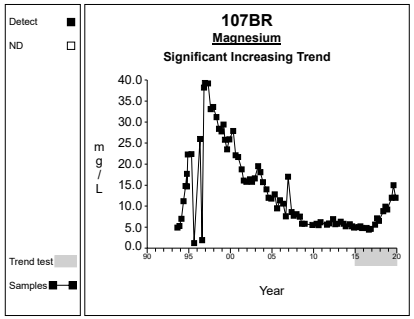
Graph 112



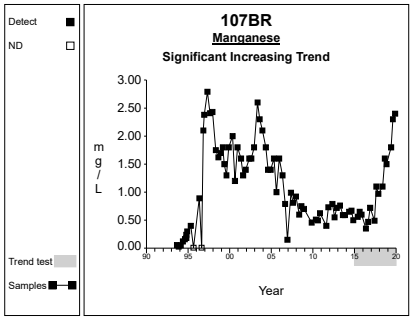
Graph 113



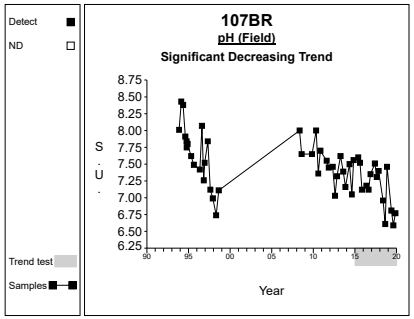
Graph 115



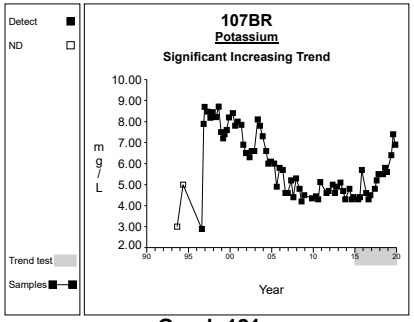
Graph 117



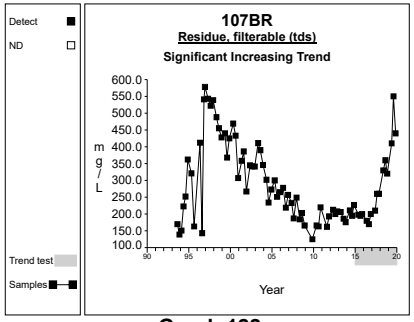
Graph 118



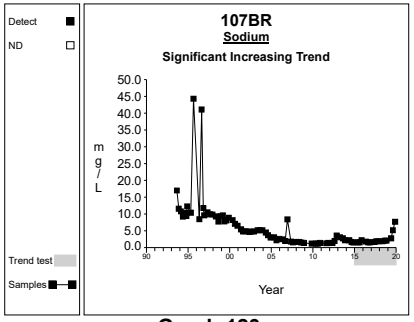
Graph 120



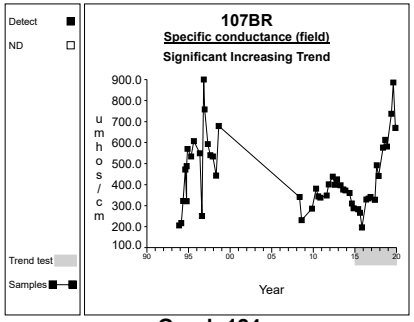
Graph 121



Graph 122

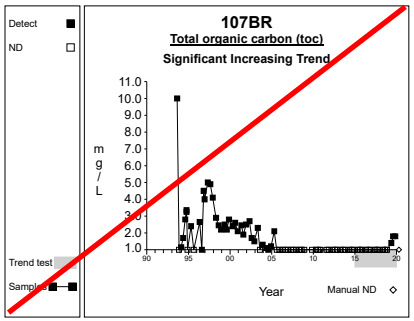


Graph 123

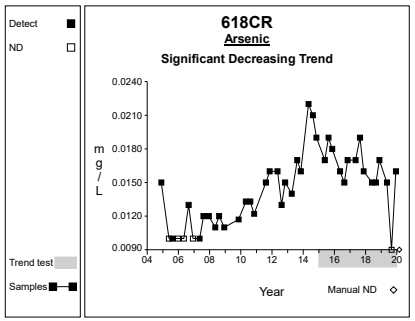


Graph 124

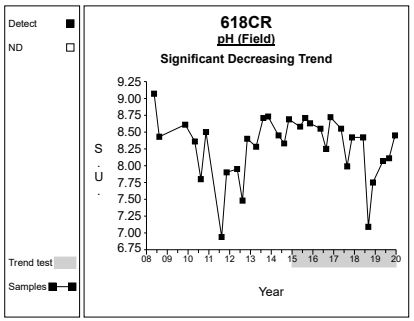
Time Series



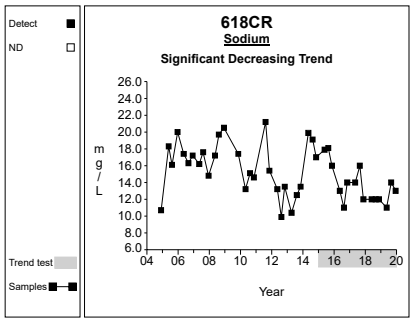
Graph 126



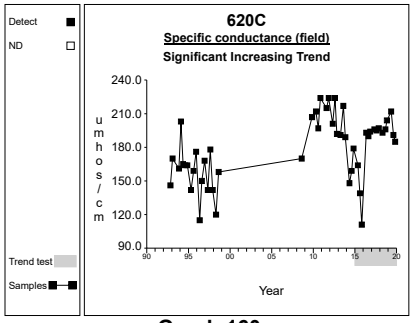
Graph 129



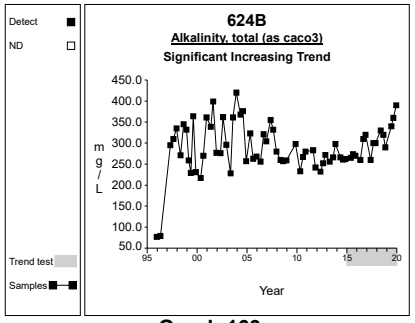
Graph 138



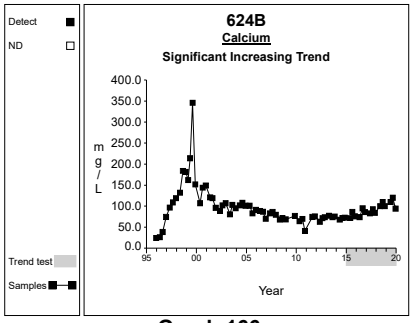
Graph 141



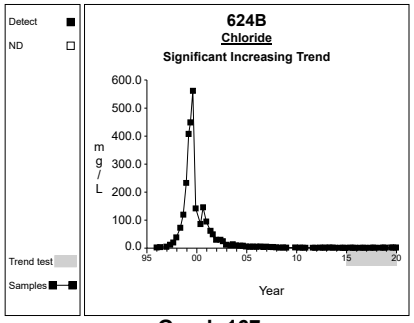
Graph 160



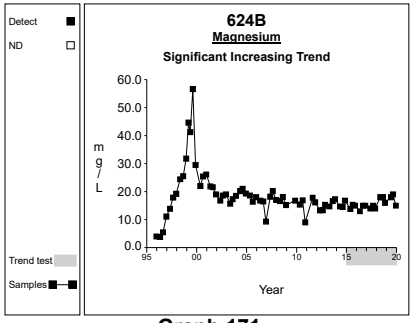
Graph 163



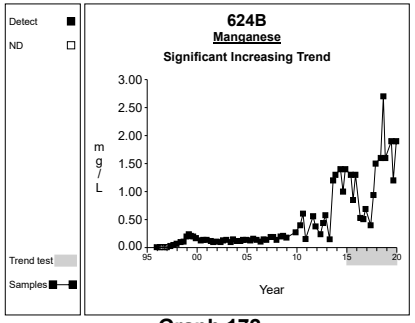
Graph 166



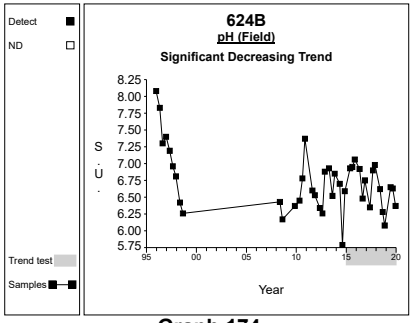
Graph 167



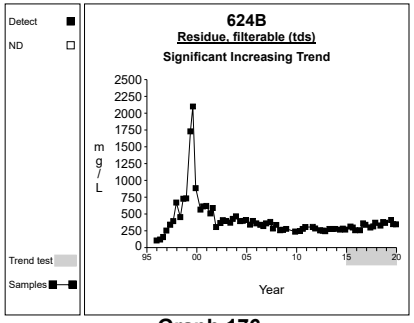
Graph 171



Graph 172

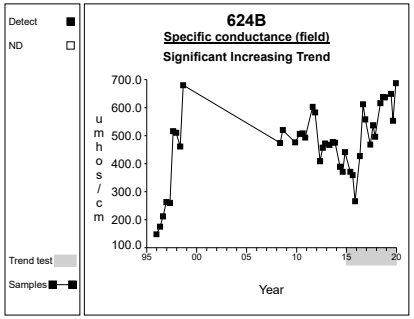


Graph 174

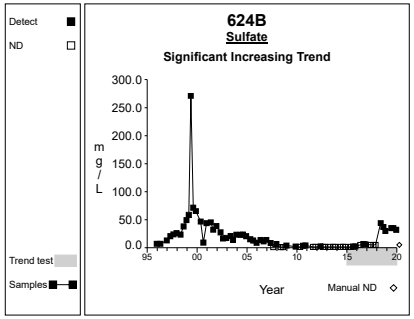


Graph 176

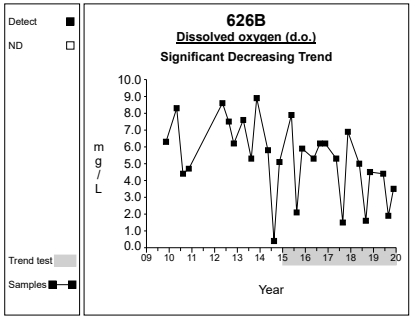
Time Series



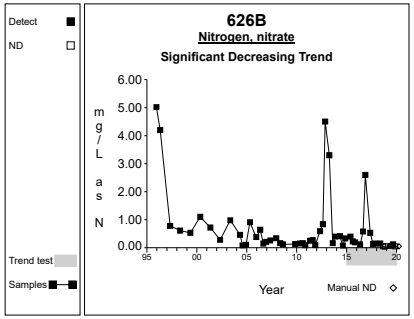
Graph 178



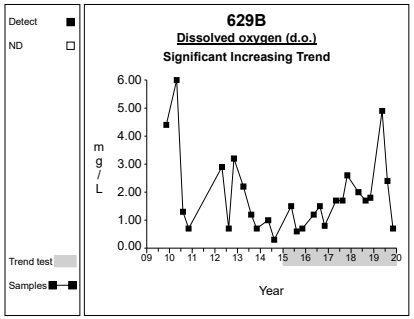
Graph 179



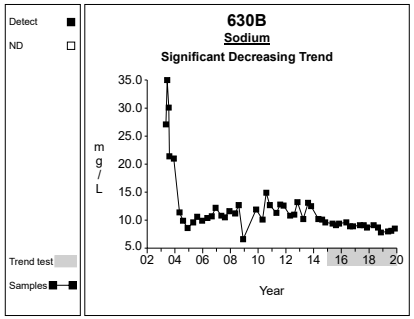
Graph 186



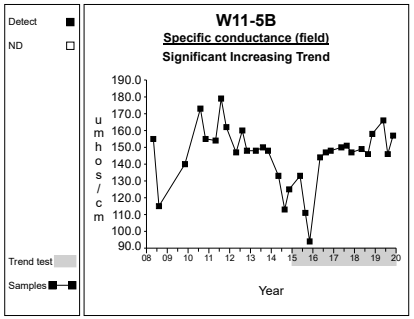
Graph 191



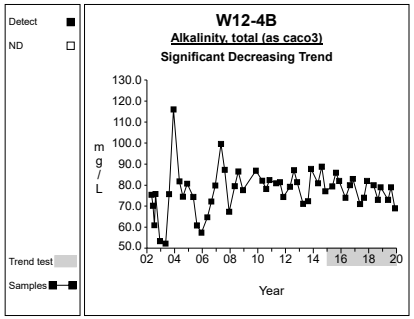
Graph 204



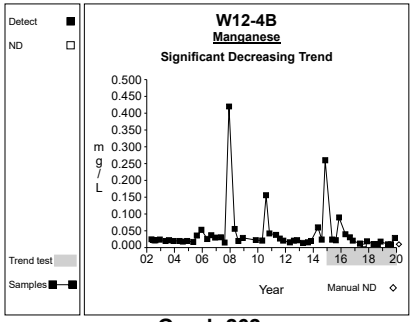
Graph 231



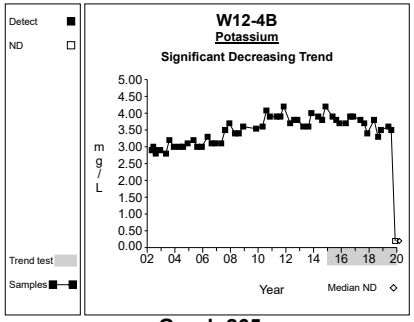
Graph 250



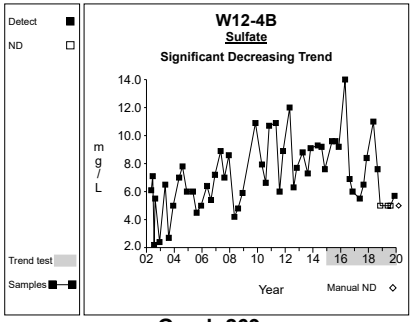
Graph 253



Graph 262

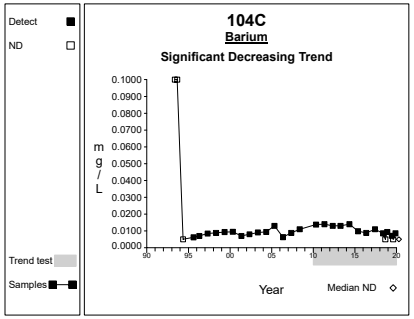


Graph 265

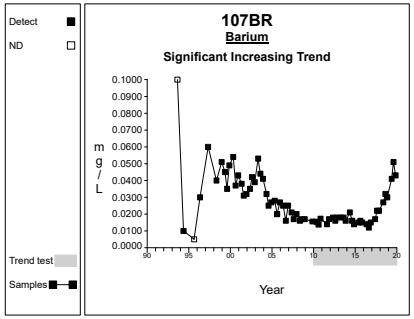


Graph 269

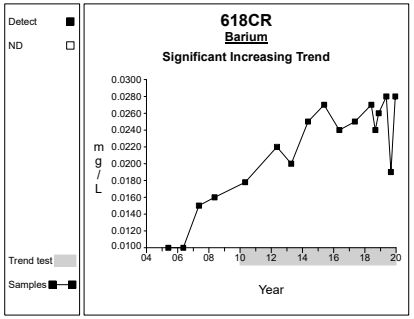
Time Series



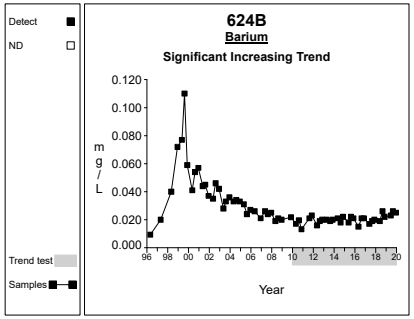
Graph 26



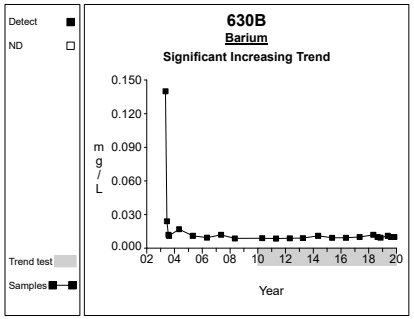
Graph 38



Graph 44



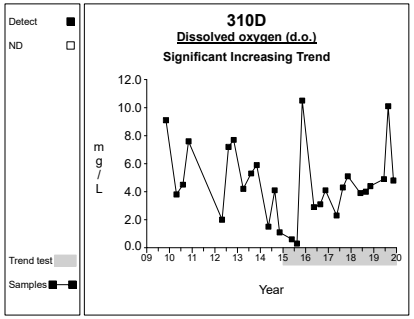
Graph 56



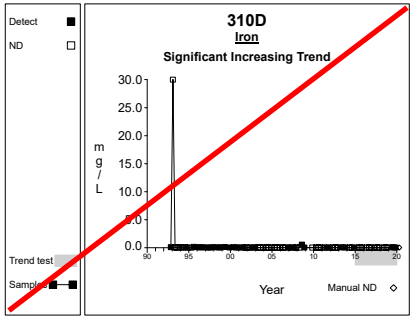
Graph 74

Significant Trends for Upgradient Bedrock Wells

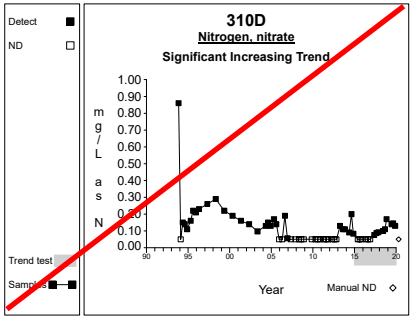
Time Series



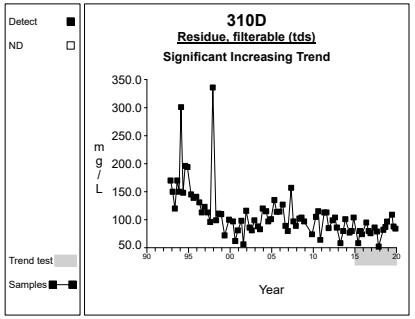
Graph 6



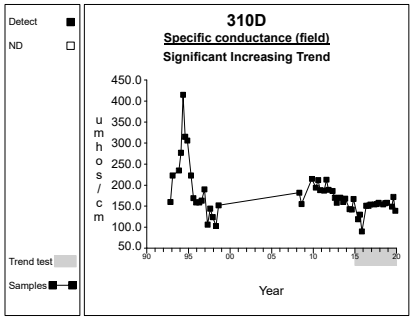
Graph 7



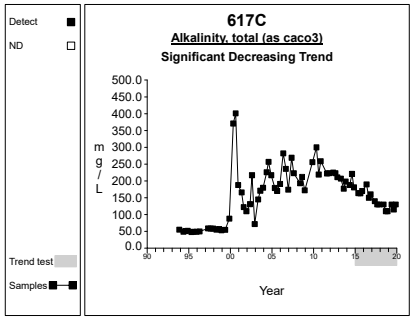
Graph 11



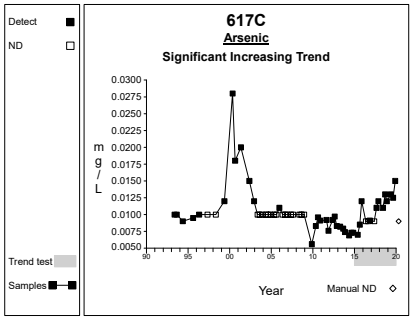
Graph 14



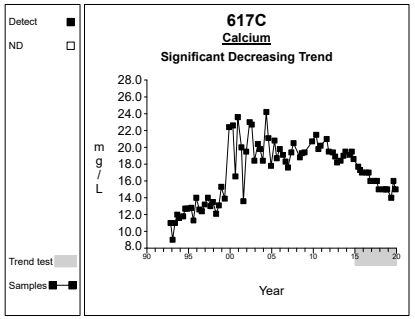
Graph 16



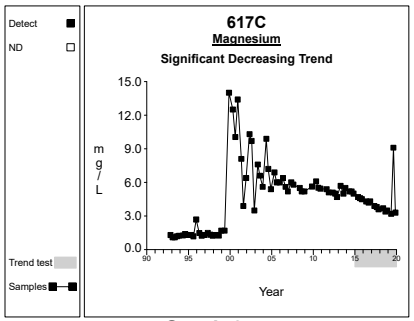
Graph 19



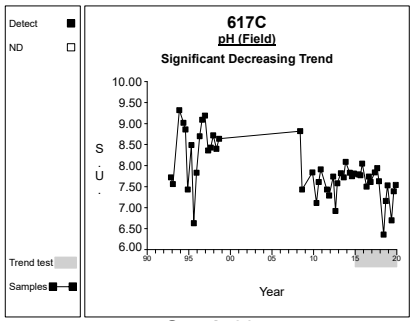
Graph 21



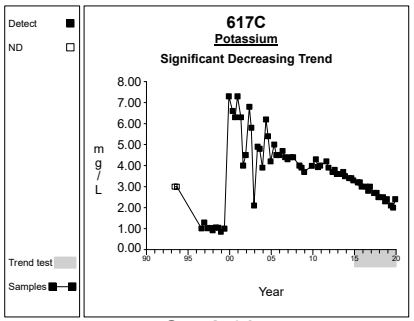
Graph 22



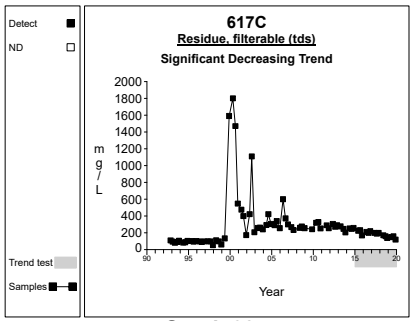
Graph 27



Graph 30

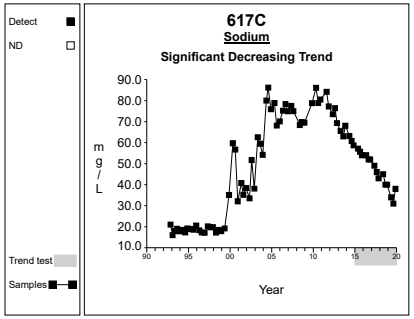


Graph 31

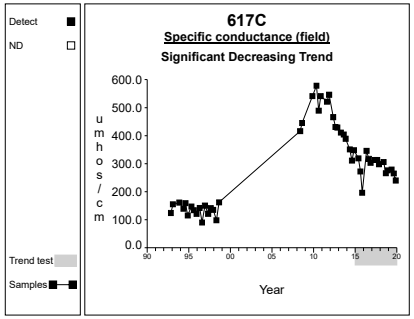


Graph 32

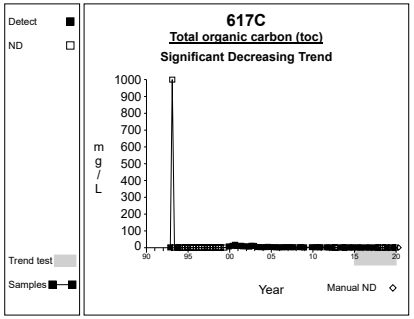
Time Series



Graph 33

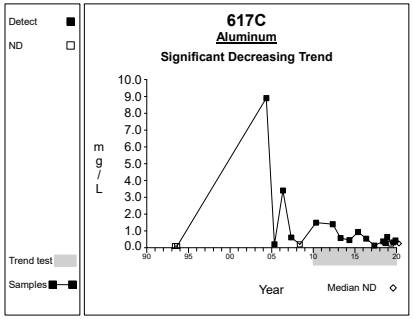


Graph 34

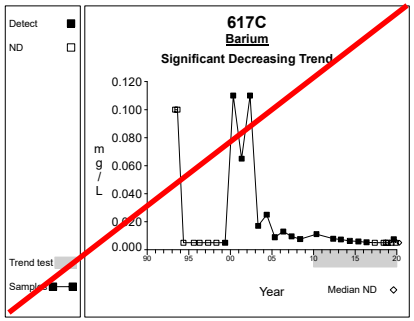


Graph 36

Time Series



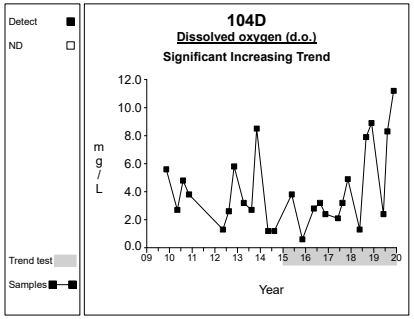
Graph 7



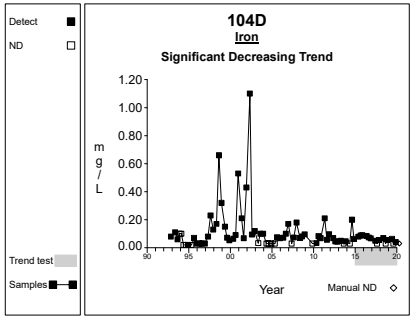
Graph 8

Significant Trends for Downgradient Bedrock Wells

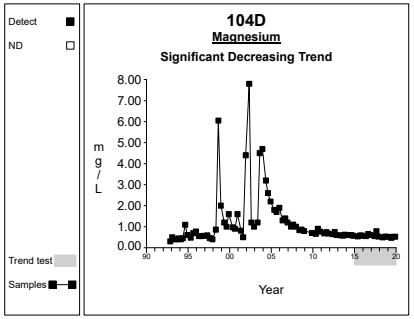
Time Series



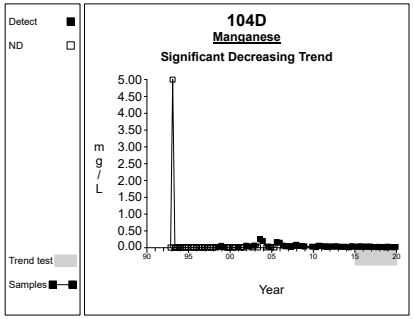
Graph 6



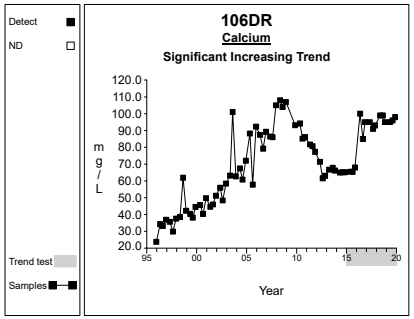
Graph 7



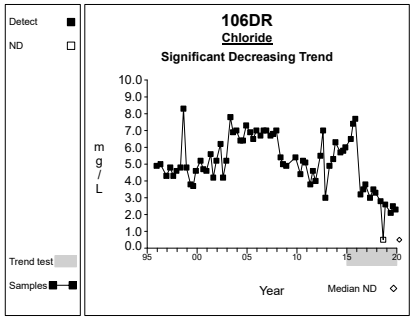
Graph 9



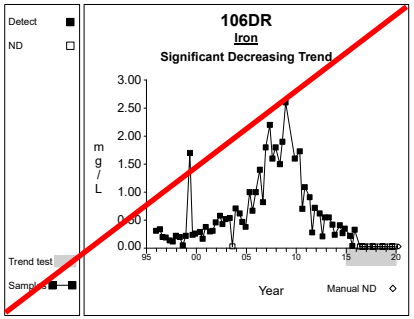
Graph 10



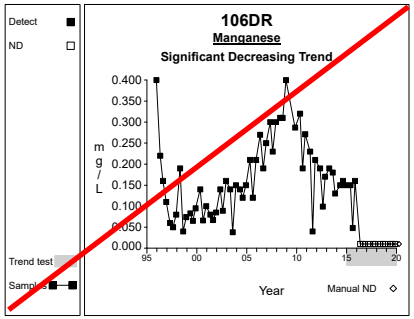
Graph 22



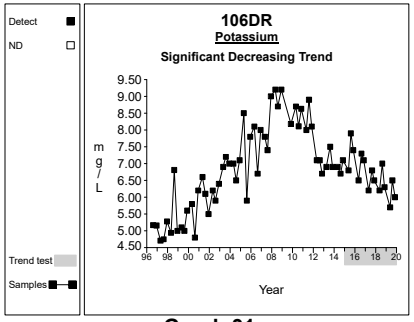
Graph 23



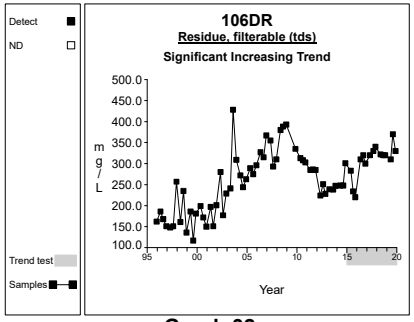
Graph 25



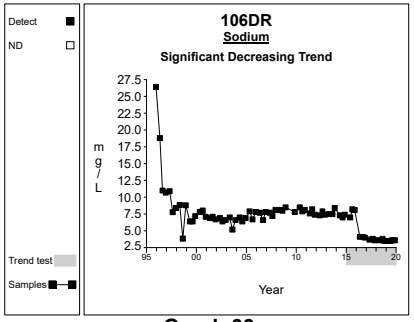
Graph 28



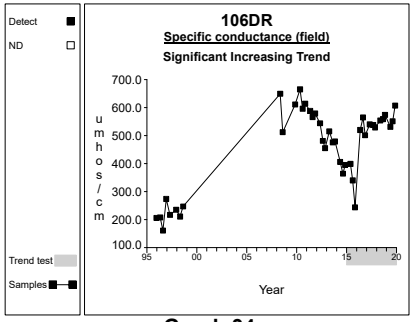
Graph 31



Graph 32

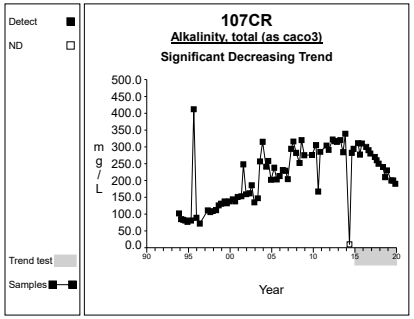


Graph 33

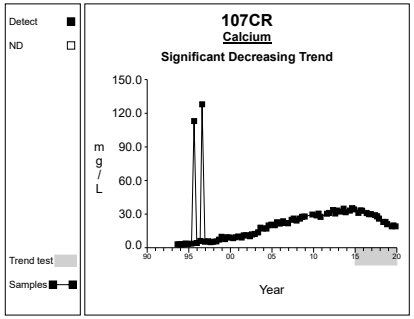


Graph 34

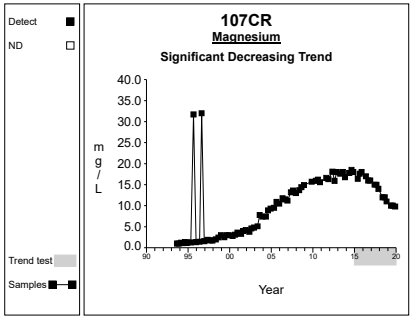
Time Series



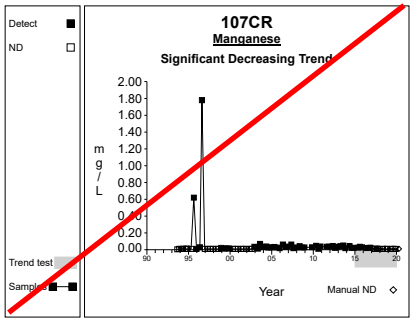
Graph 37



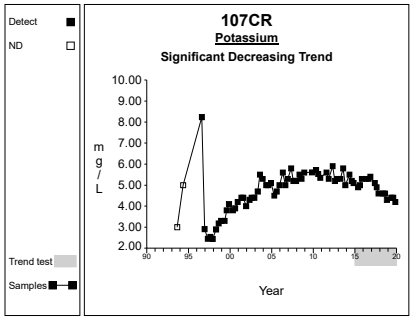
Graph 40



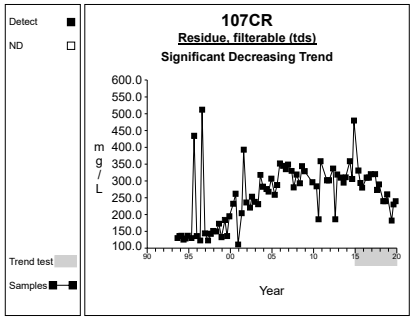
Graph 45



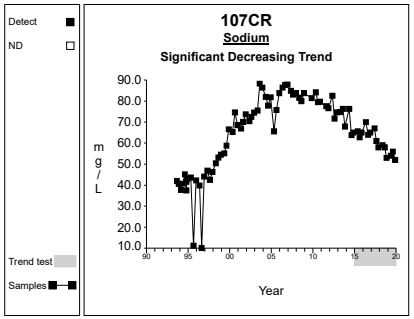
Graph 46



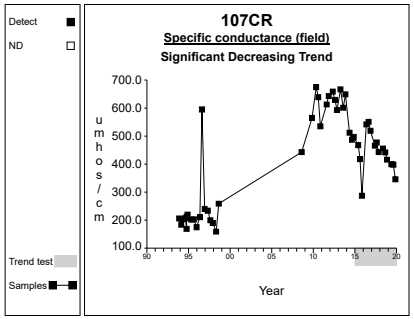
Graph 49



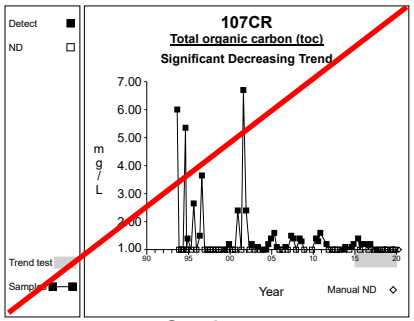
Graph 50



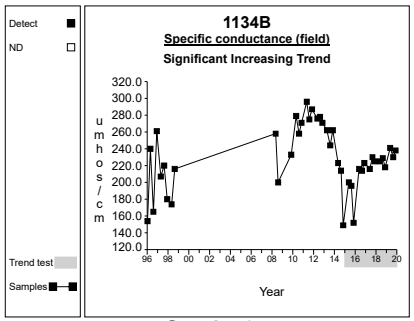
Graph 51



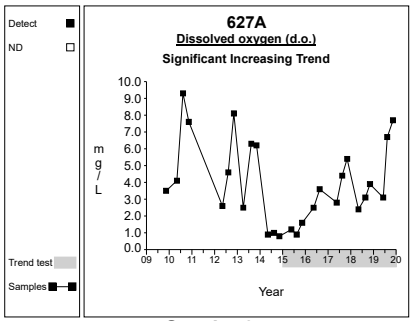
Graph 52



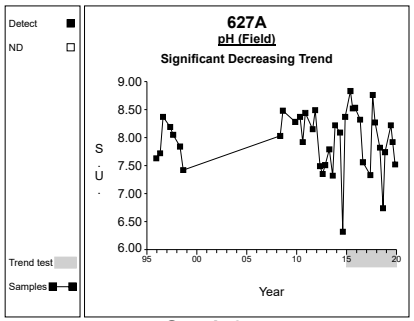
Graph 54



Graph 70

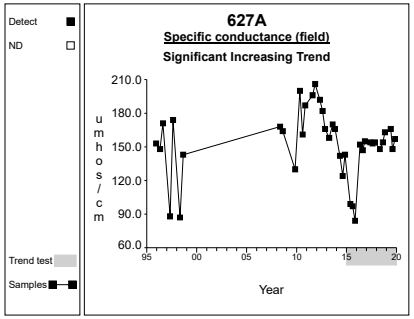


Graph 78



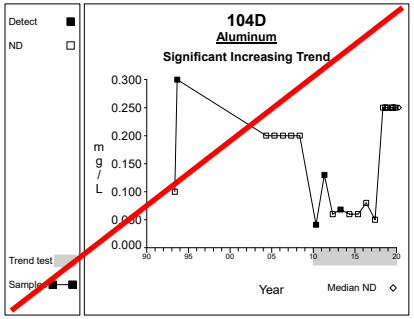
Graph 84

Time Series



Graph 88

Time Series



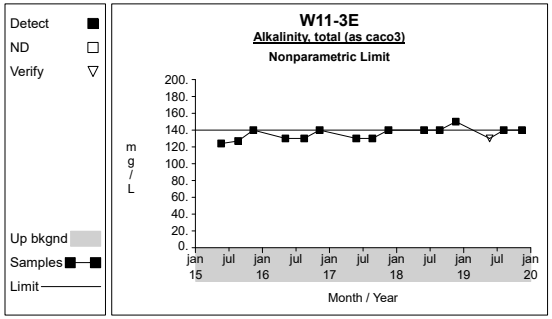
Graph 1

ATTACHMENT B.

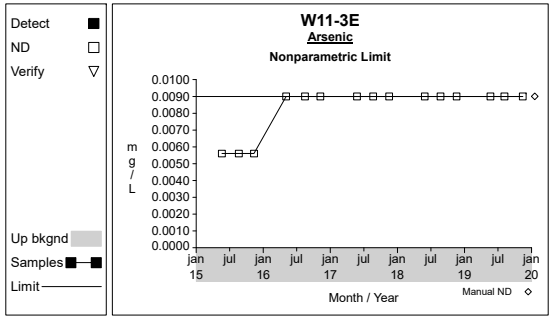
PHASE 11 AND 12 INTERWELL STATISTICAL ANALYSIS RESULTS

Phreatic Zone Results

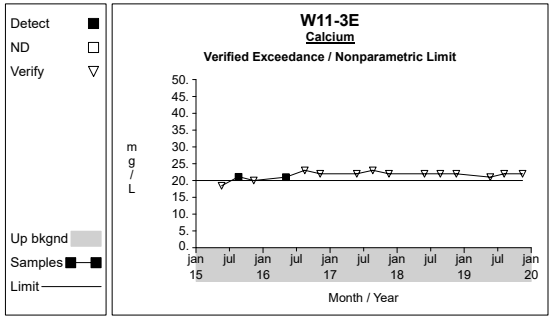
Up vs. Down Prediction Limits



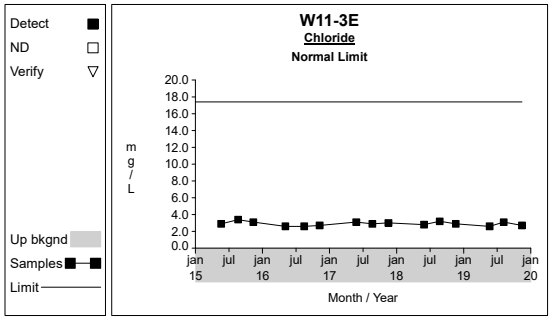
Graph 1



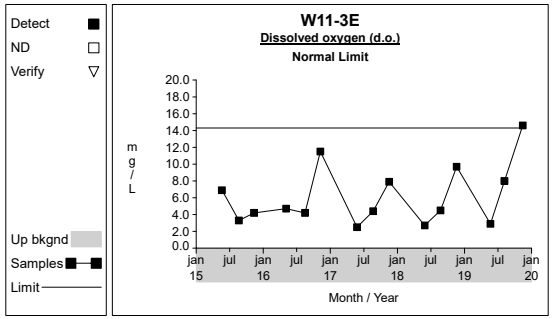
Graph 2



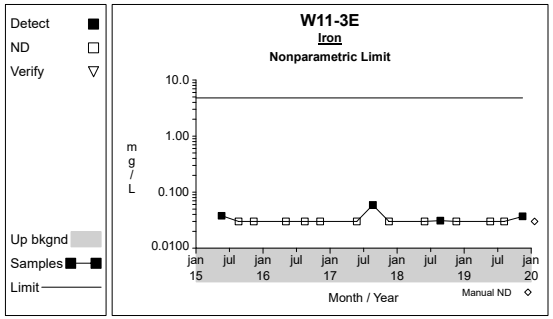
Graph 3



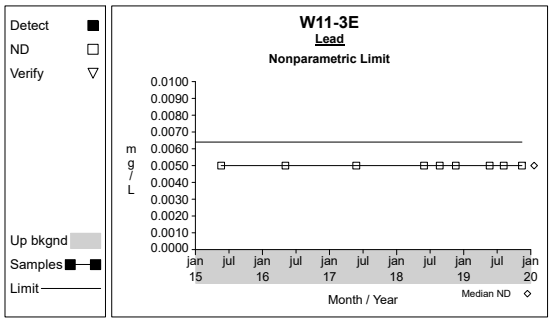
Graph 4



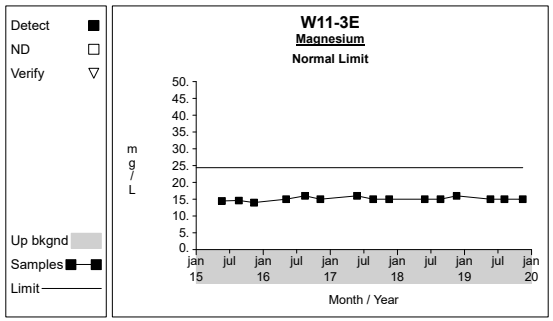
Graph 5



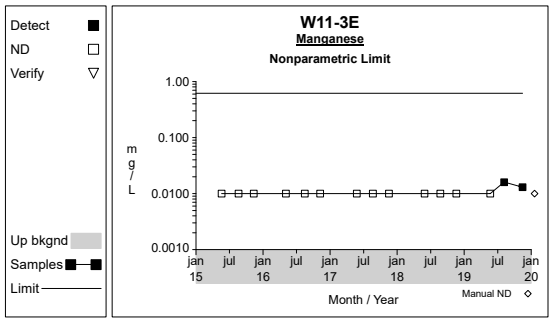
Graph 6



Graph 7

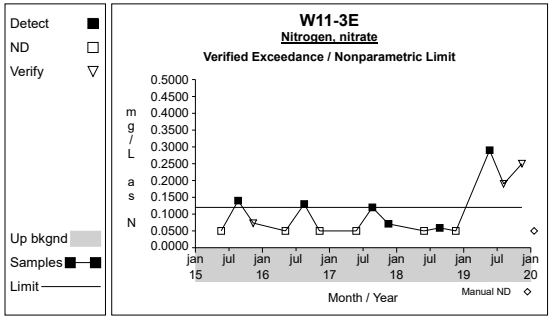


Graph 8

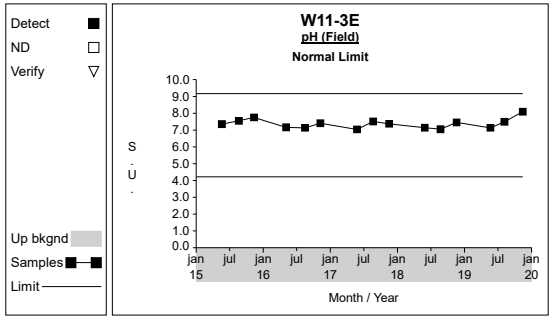


Graph 9

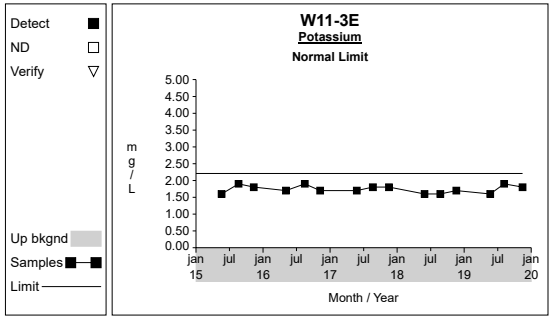
Up vs. Down Prediction Limits



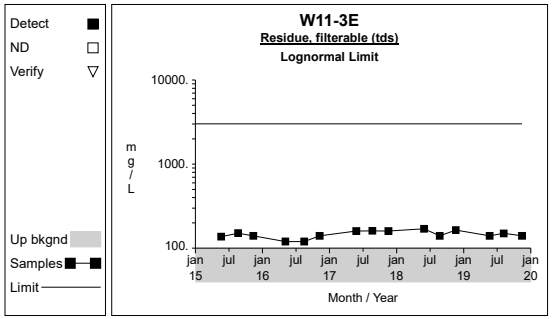
Graph 10



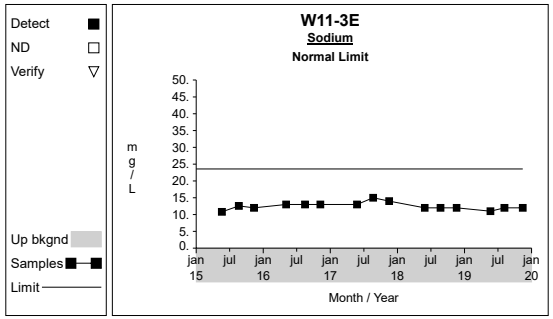
Graph 11



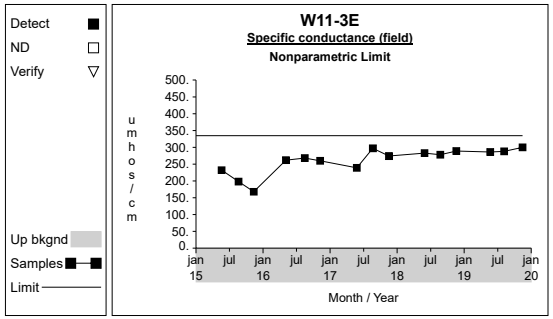
Graph 12



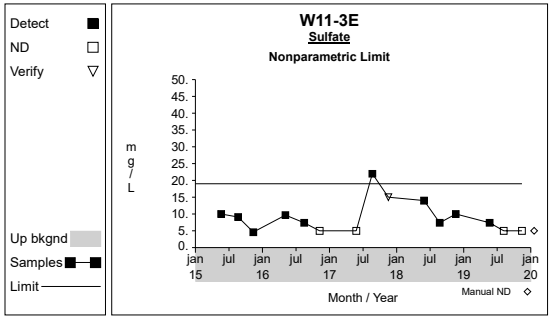
Graph 13



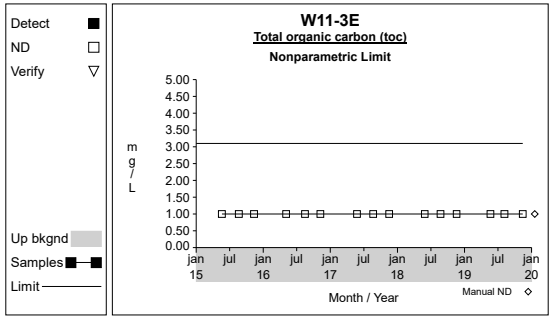
Graph 14



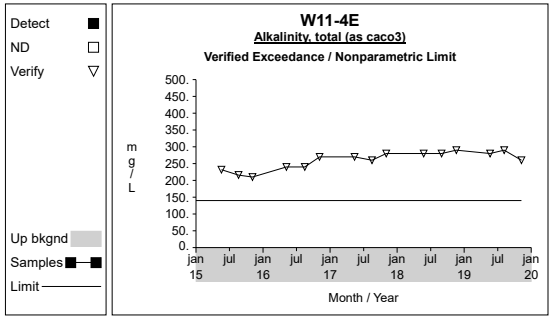
Graph 15



Graph 16

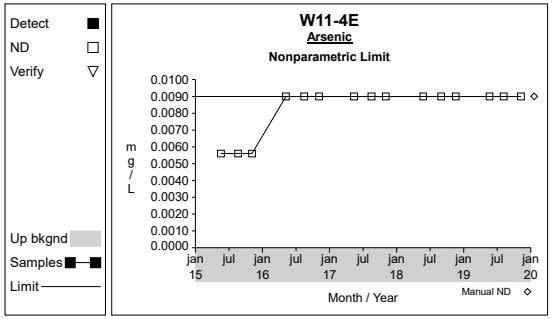


Graph 17

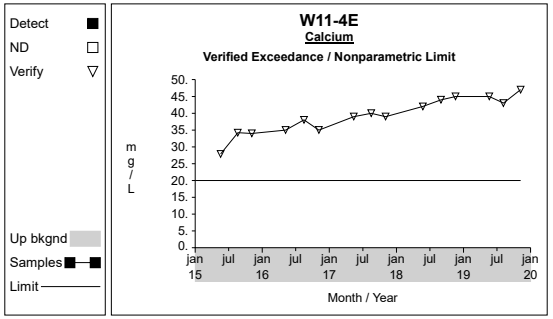


Graph 18

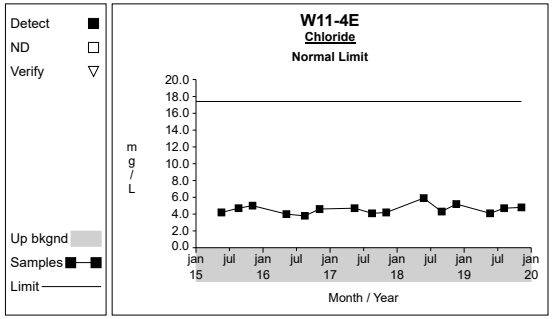
Up vs. Down Prediction Limits



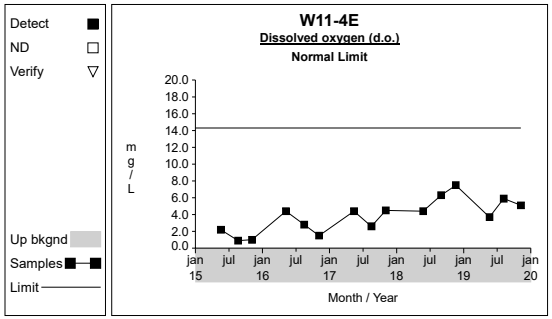
Graph 19



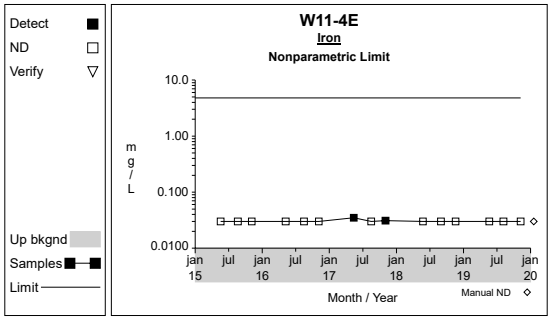
Graph 20



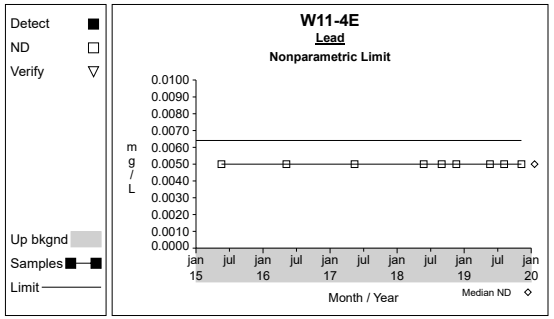
Graph 21



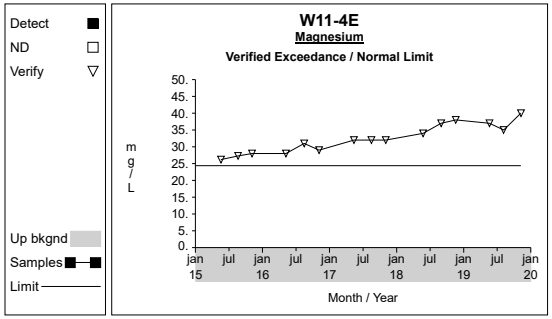
Graph 22



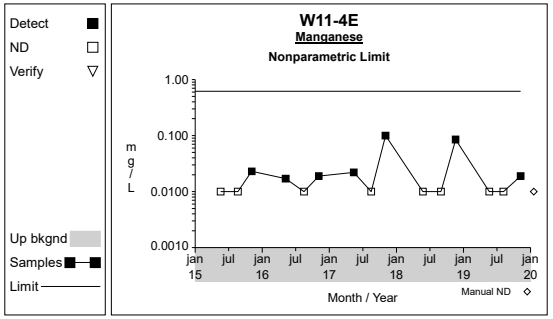
Graph 23



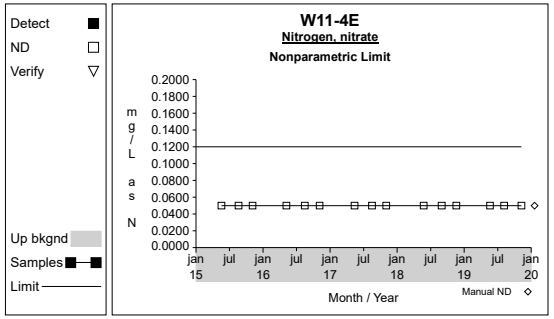
Graph 24



Graph 25

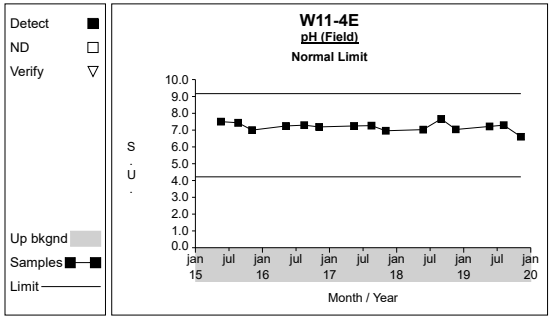


Graph 26

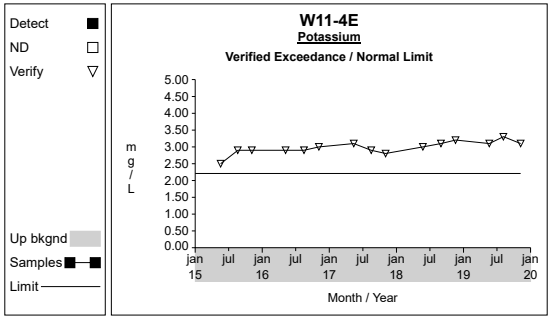


Graph 27

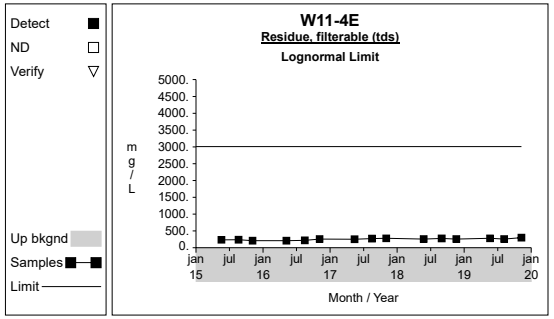
Up vs. Down Prediction Limits



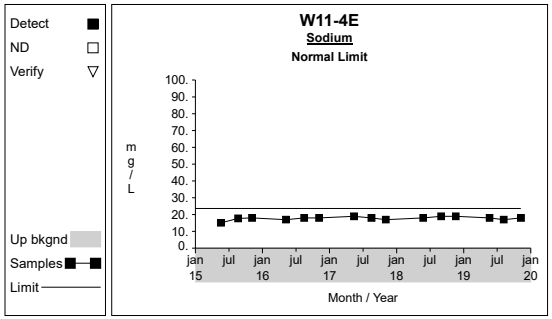
Graph 28



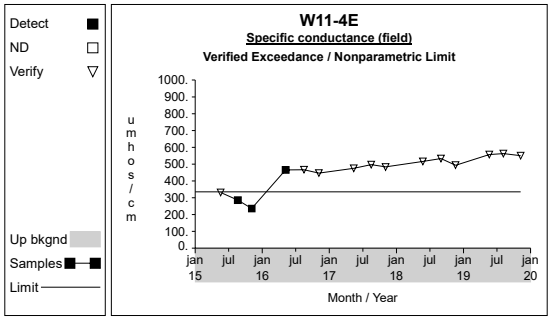
Graph 29



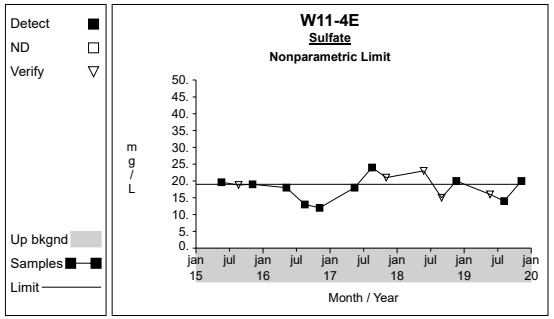
Graph 30



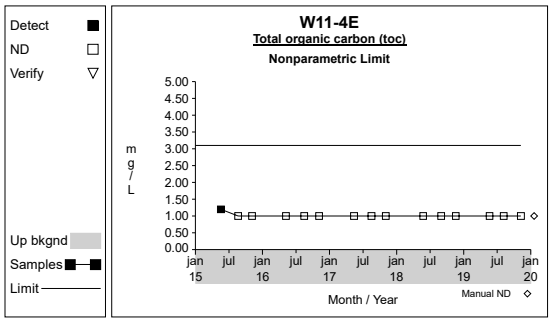
Graph 31



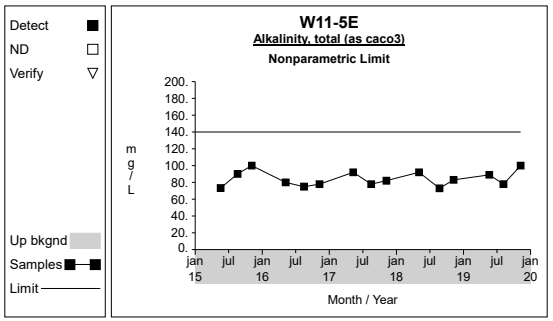
Graph 32



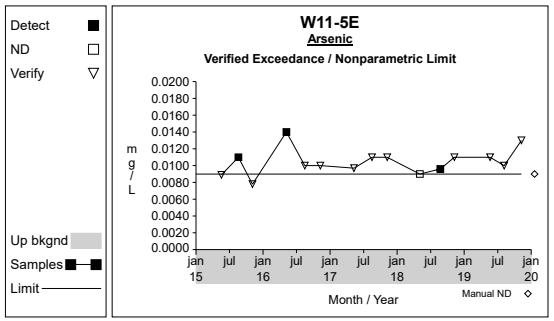
Graph 33



Graph 34

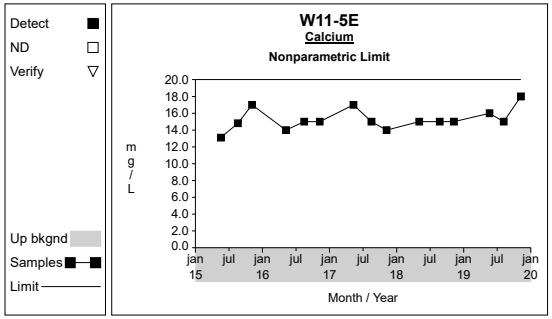


Graph 35

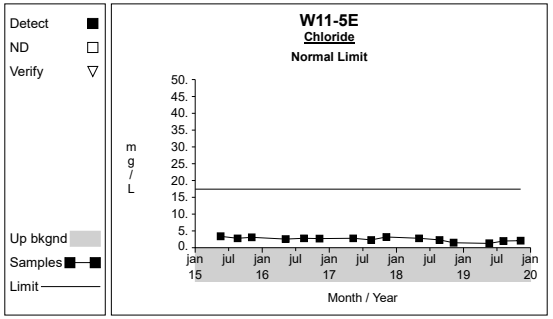


Graph 36

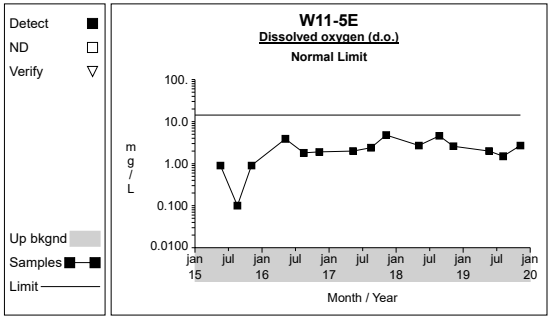
Up vs. Down Prediction Limits



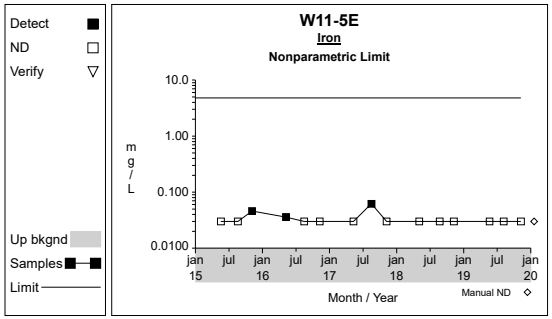
Graph 37



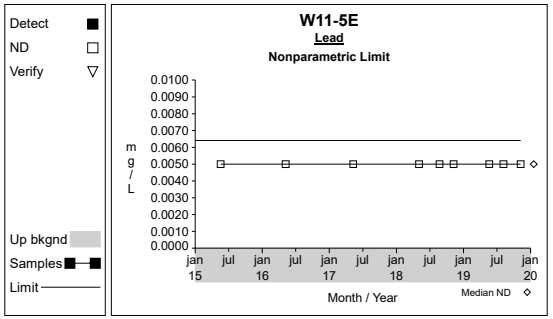
Graph 38



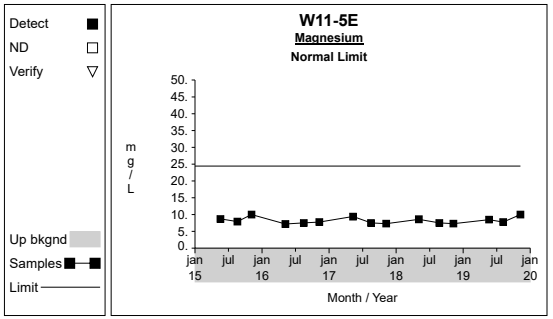
Graph 39



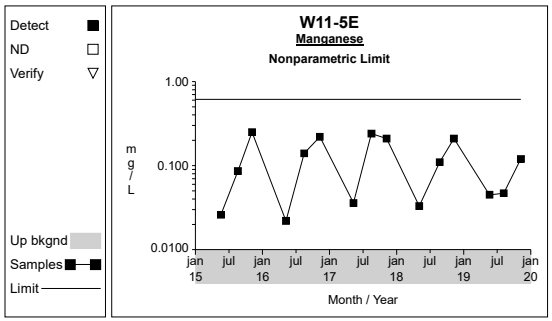
Graph 40



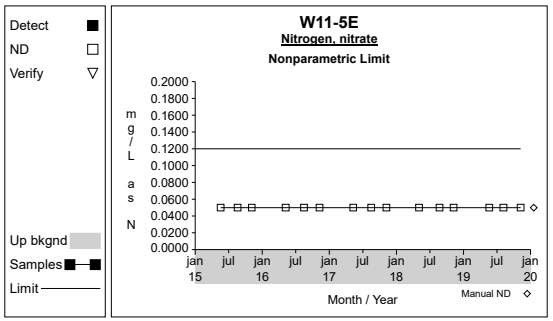
Graph 41



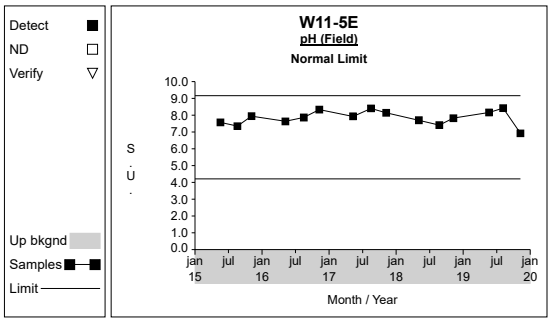
Graph 42



Graph 43

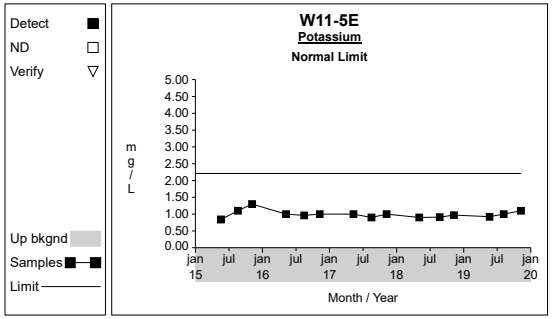


Graph 44

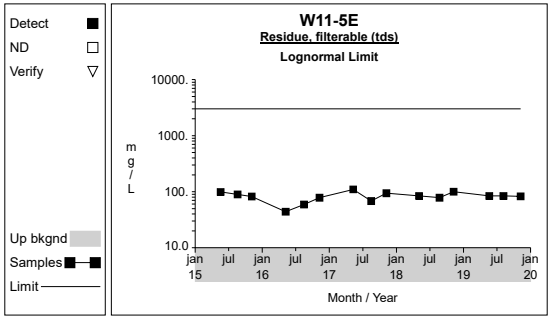


Graph 45

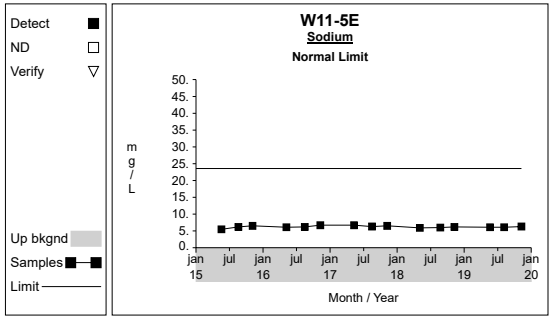
Up vs. Down Prediction Limits



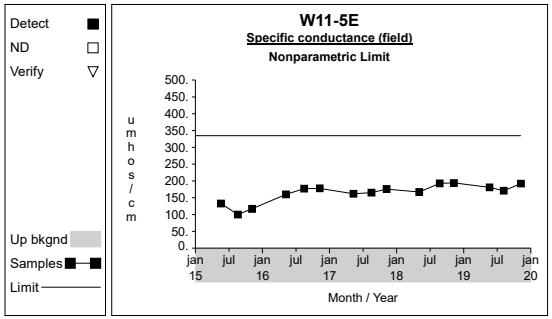
Graph 46



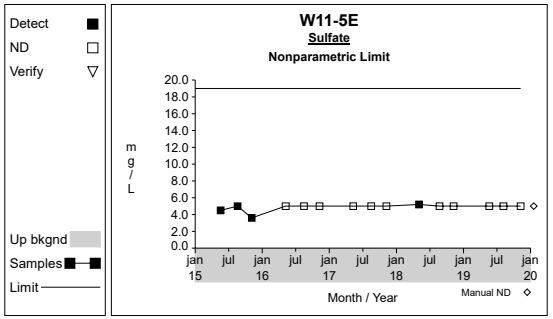
Graph 47



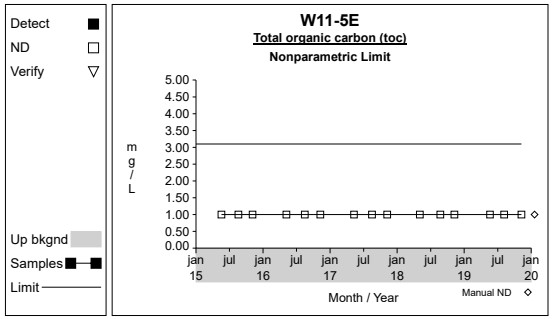
Graph 48



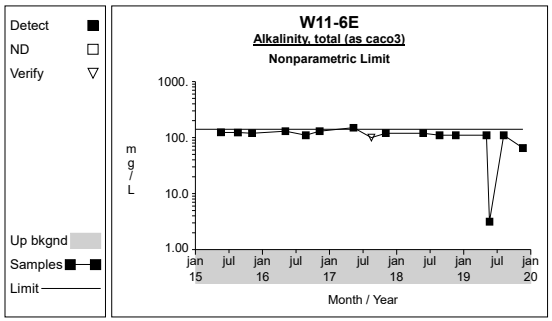
Graph 49



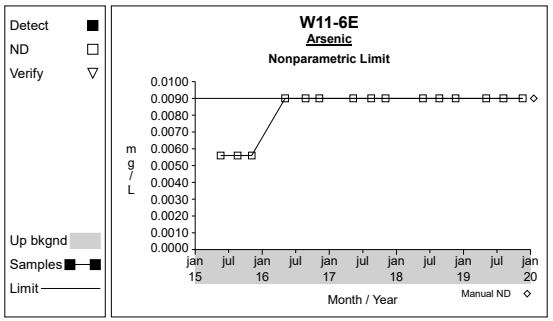
Graph 50



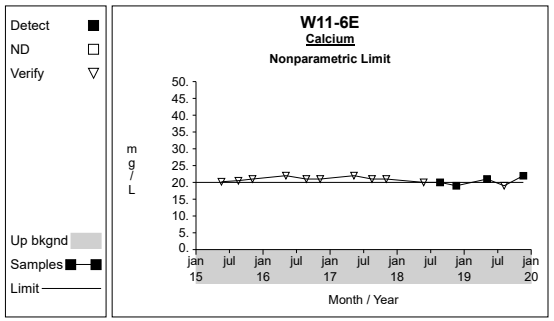
Graph 51



Graph 52

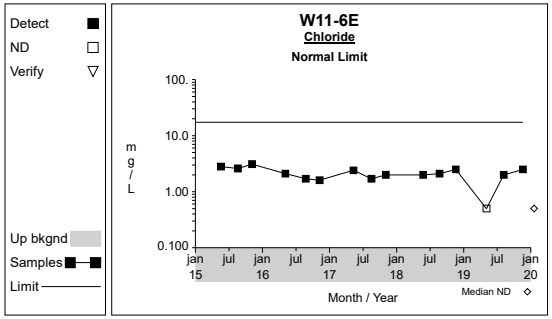


Graph 53

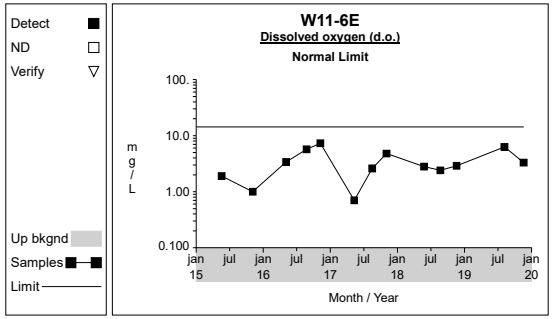


Graph 54

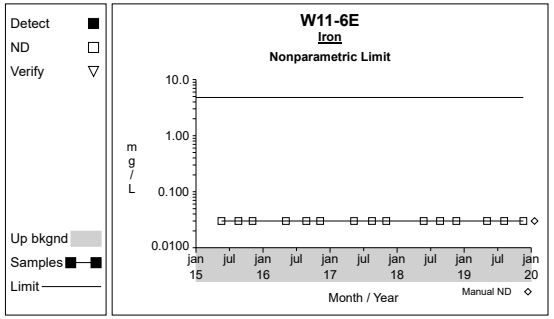
Up vs. Down Prediction Limits



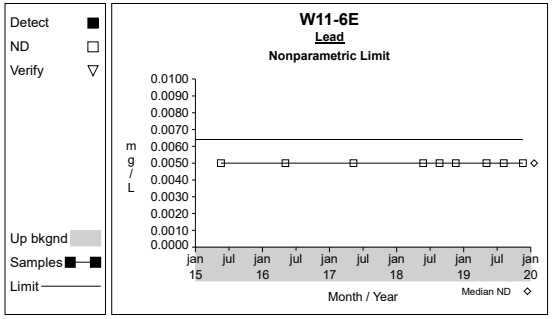
Graph 55



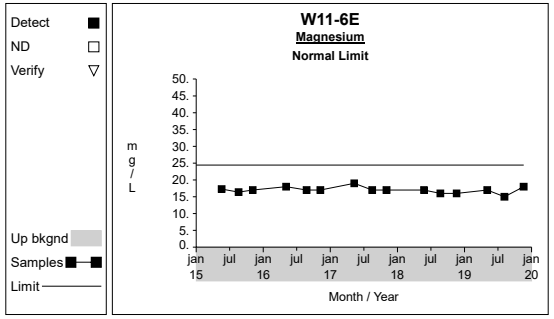
Graph 56



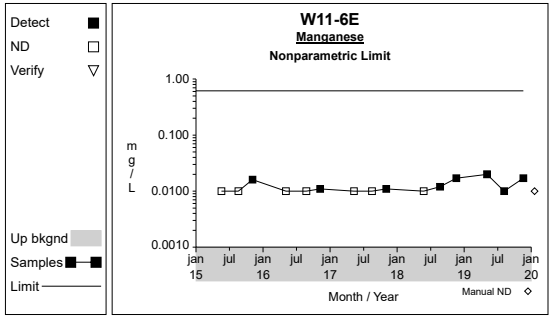
Graph 57



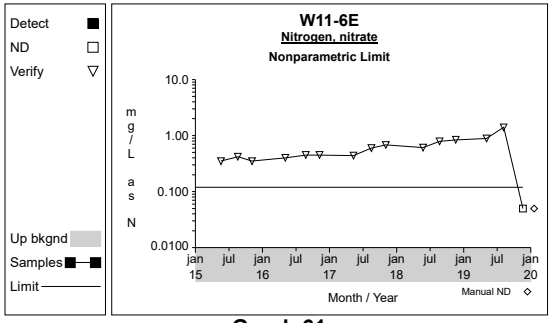
Graph 58



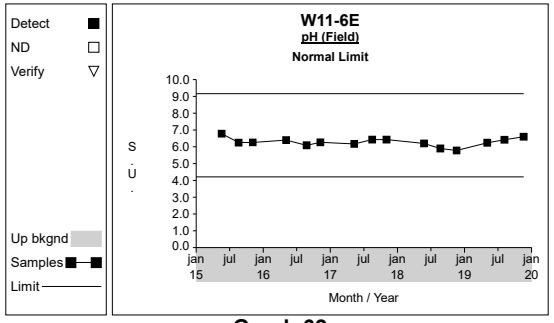
Graph 59



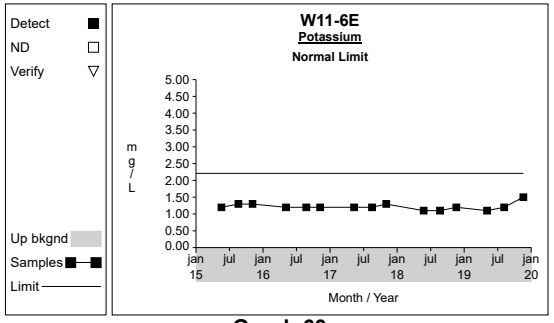
Graph 60



Graph 61

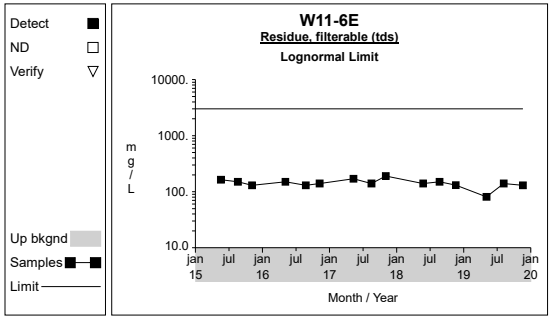


Graph 62

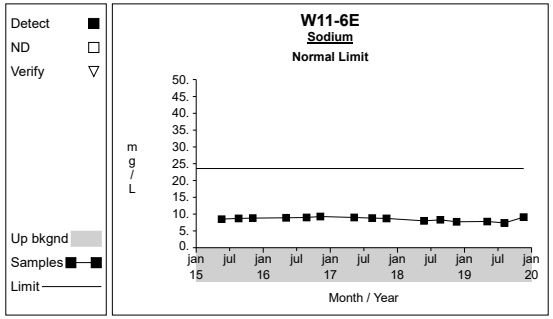


Graph 63

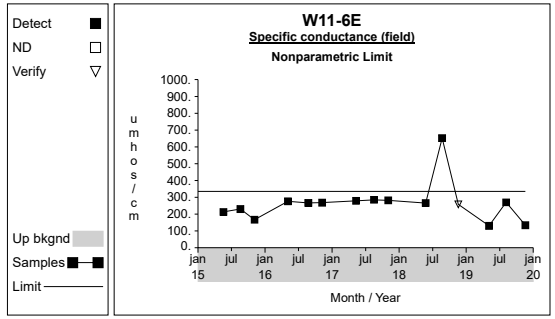
Up vs. Down Prediction Limits



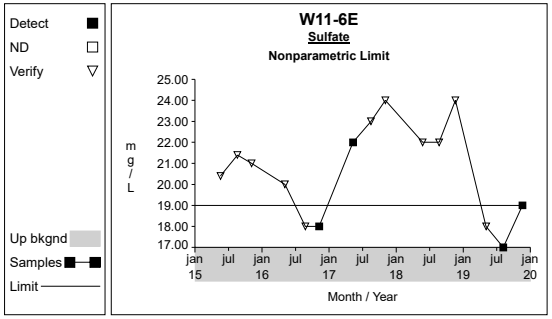
Graph 64



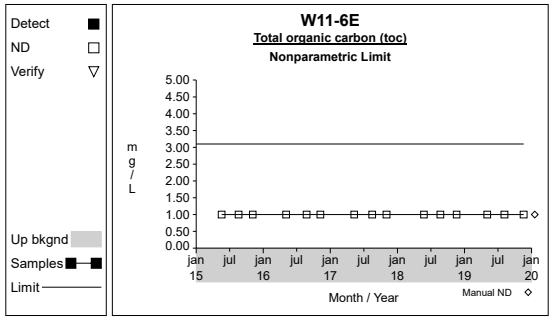
Graph 65



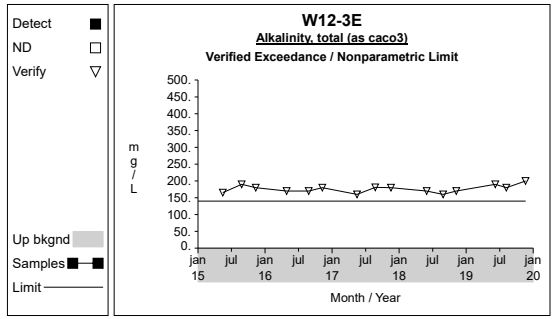
Graph 66



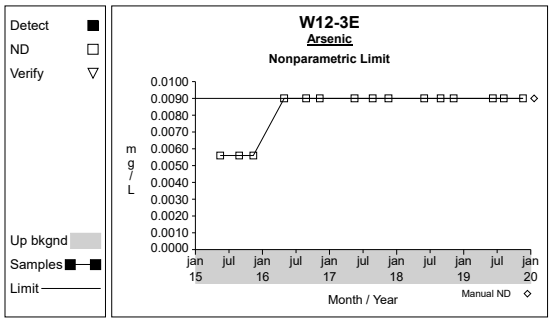
Graph 67



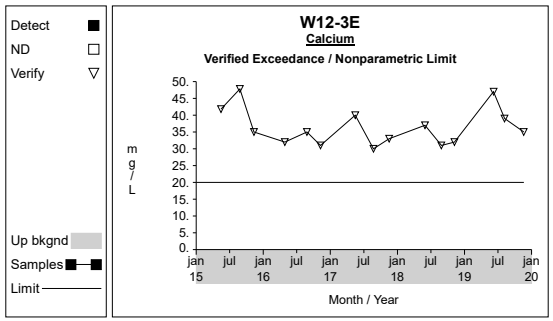
Graph 68



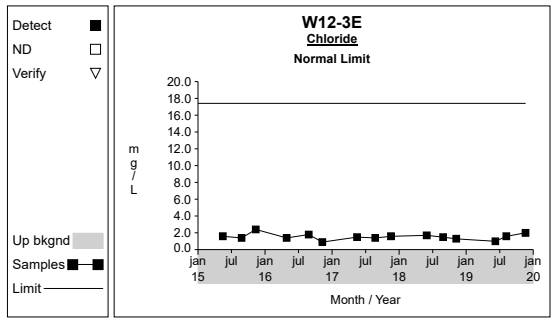
Graph 69



Graph 70

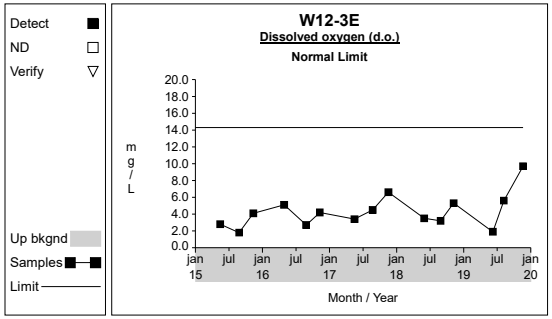


Graph 71

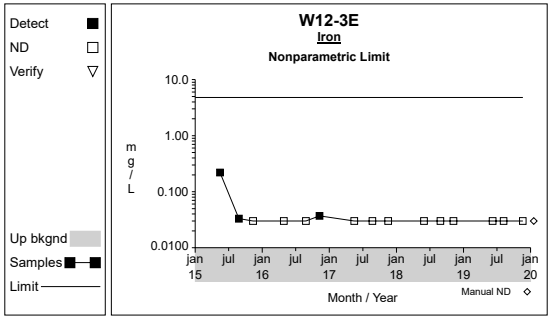


Graph 72

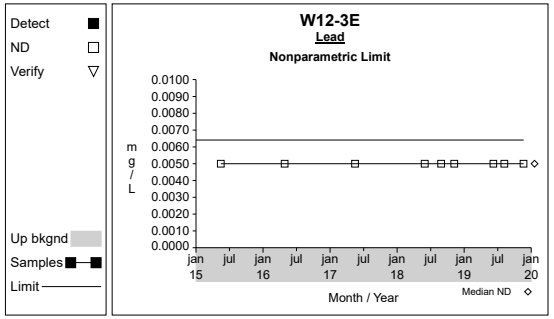
Up vs. Down Prediction Limits



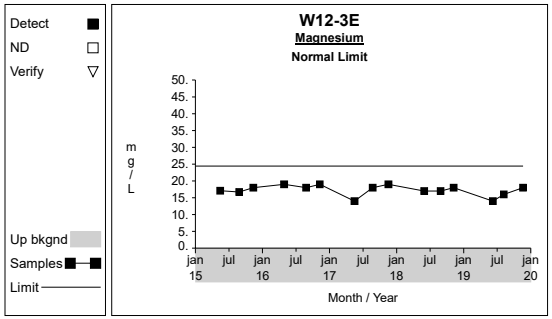
Graph 73



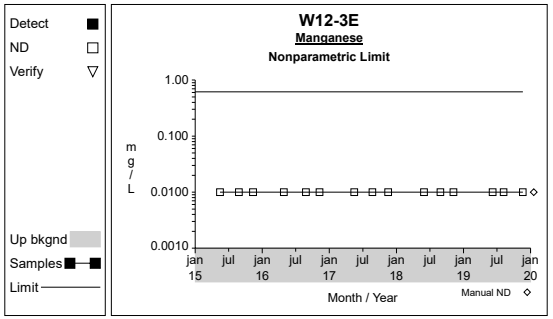
Graph 74



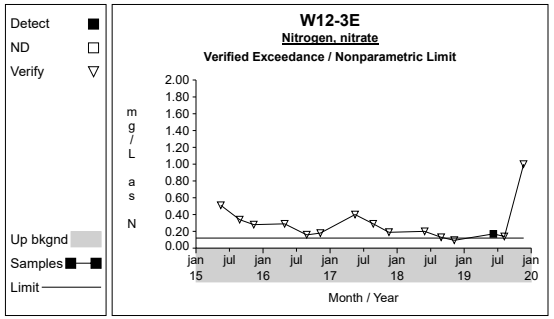
Graph 75



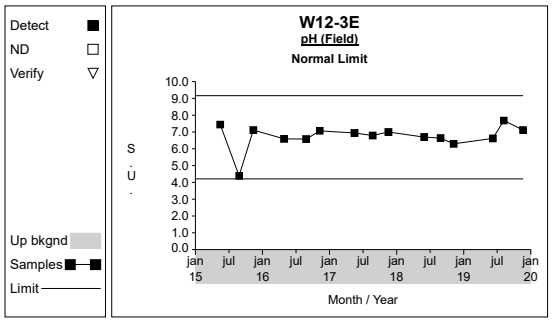
Graph 76



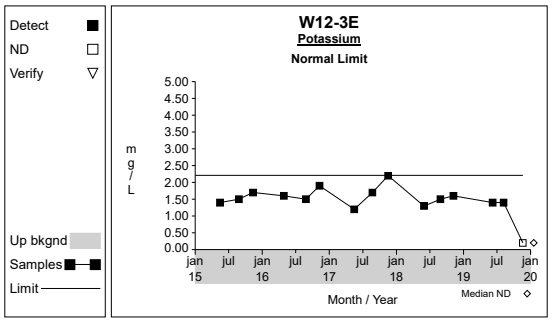
Graph 77



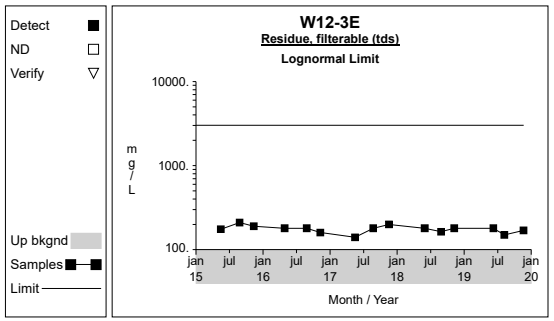
Graph 78



Graph 79

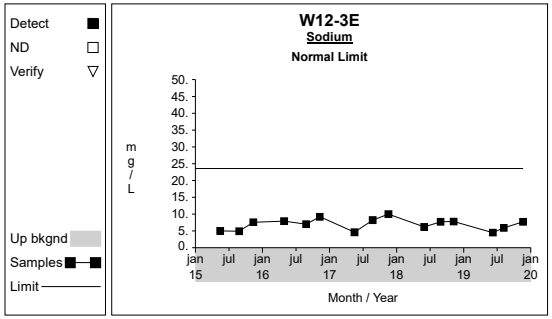


Graph 80

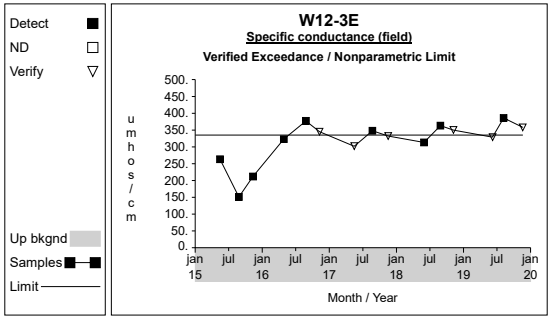


Graph 81

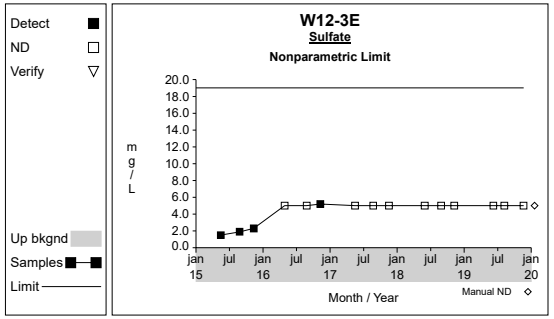
Up vs. Down Prediction Limits



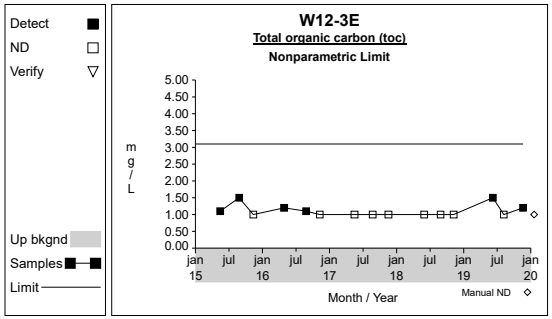
Graph 82



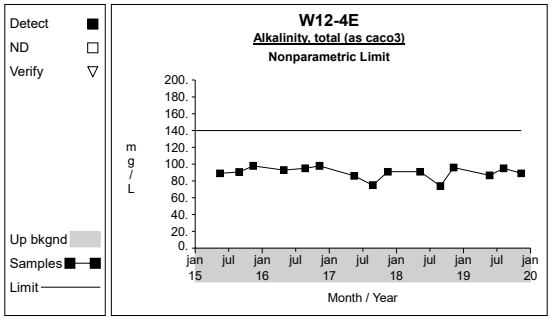
Graph 83



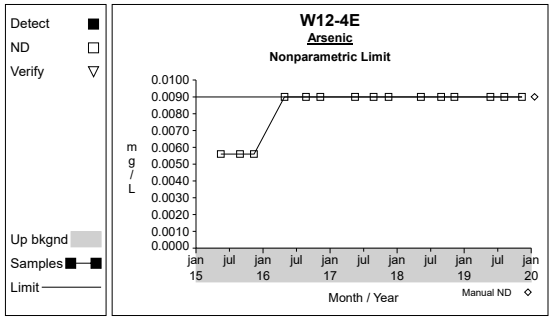
Graph 84



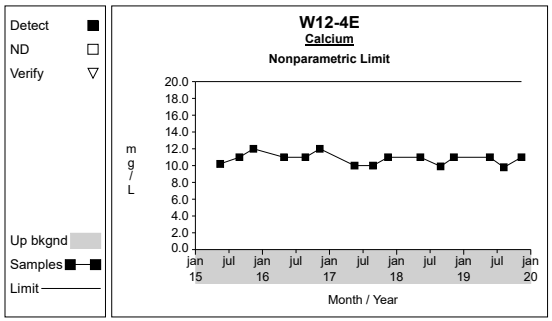
Graph 85



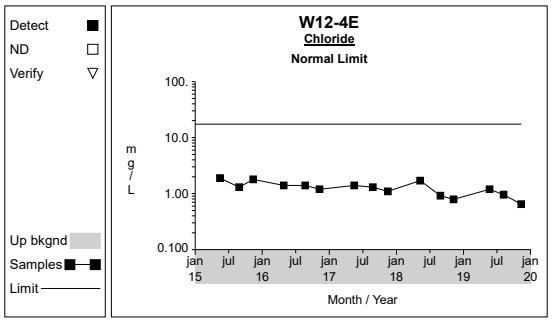
Graph 86



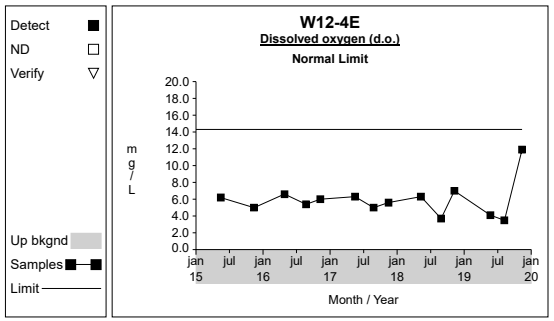
Graph 87



Graph 88

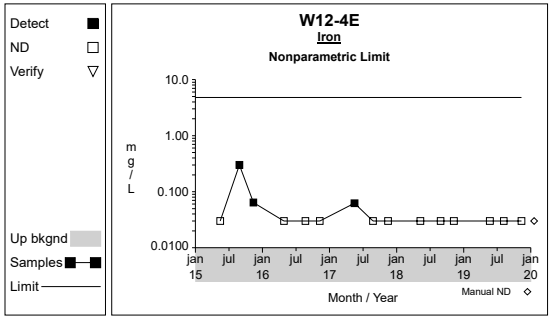


Graph 89

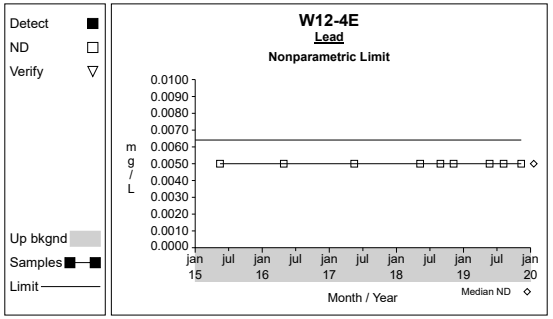


Graph 90

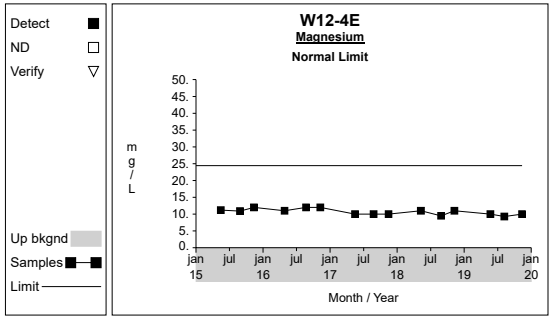
Up vs. Down Prediction Limits



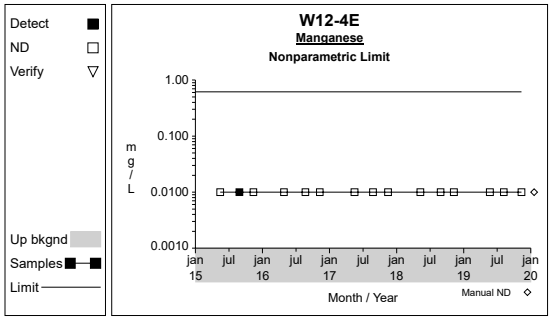
Graph 91



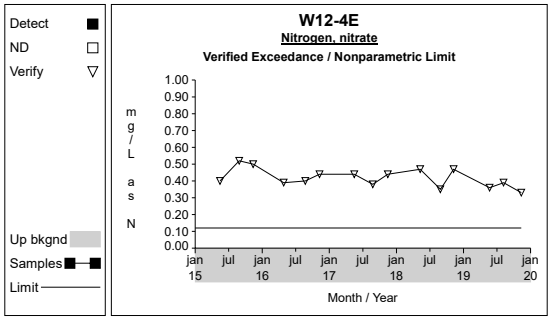
Graph 92



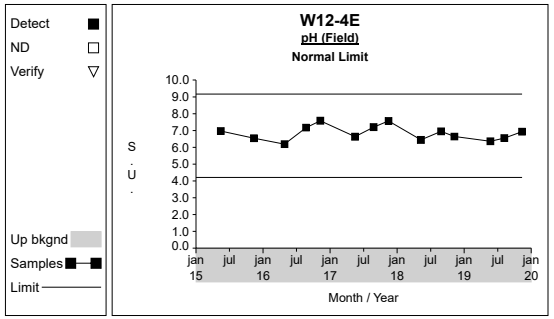
Graph 93



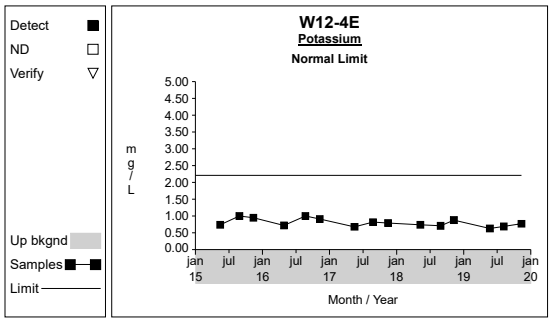
Graph 94



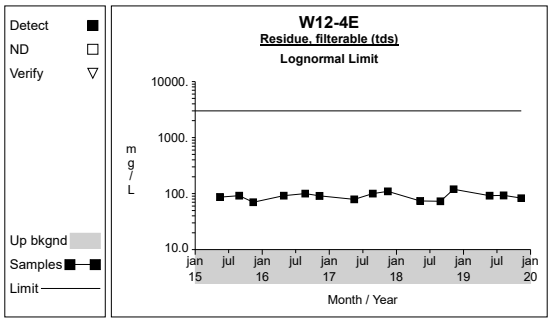
Graph 95



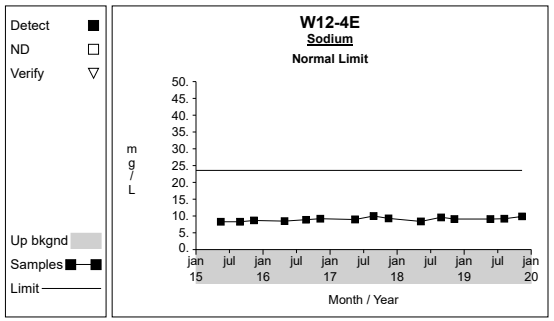
Graph 96



Graph 97

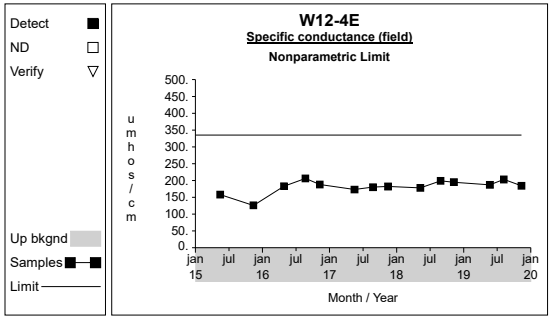


Graph 98

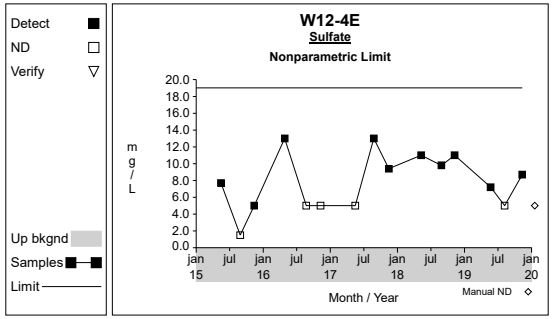


Graph 99

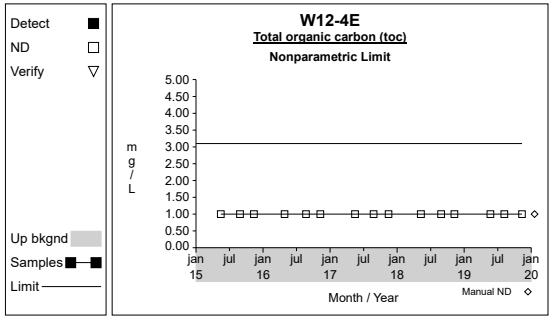
Up vs. Down Prediction Limits



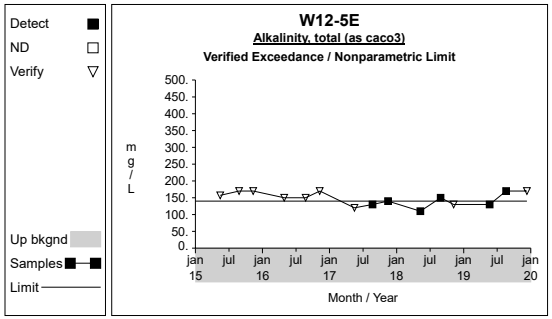
Graph 100



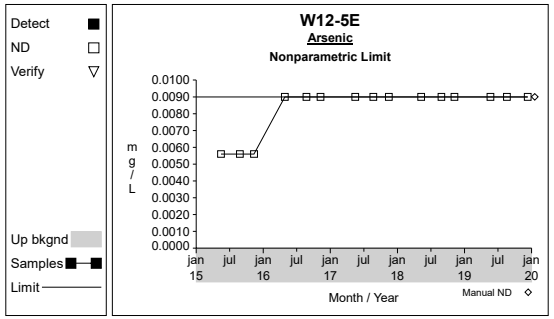
Graph 101



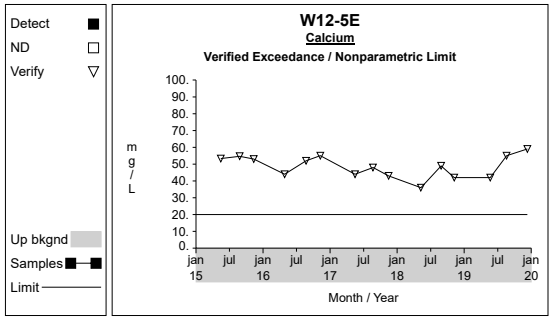
Graph 102



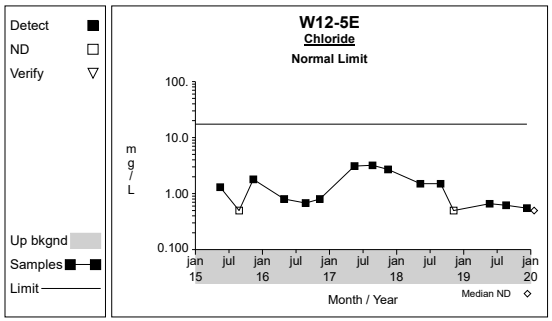
Graph 103



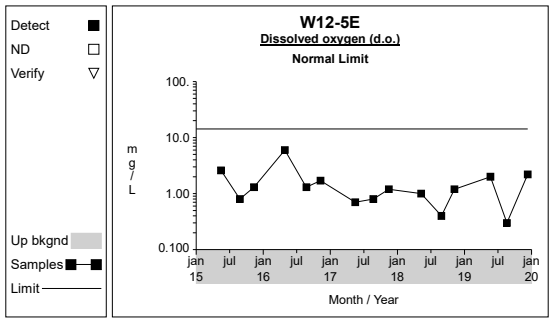
Graph 104



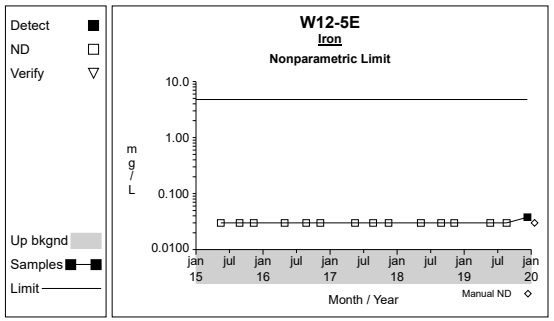
Graph 105



Graph 106

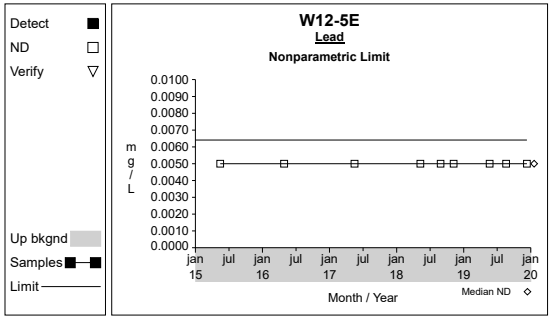


Graph 107

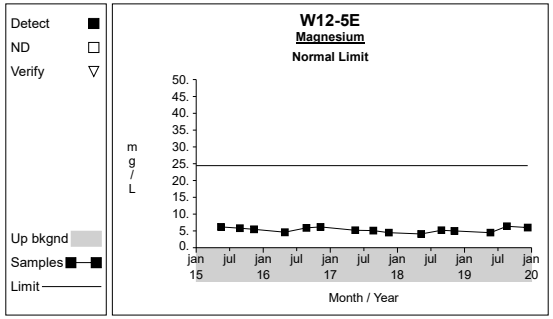


Graph 108

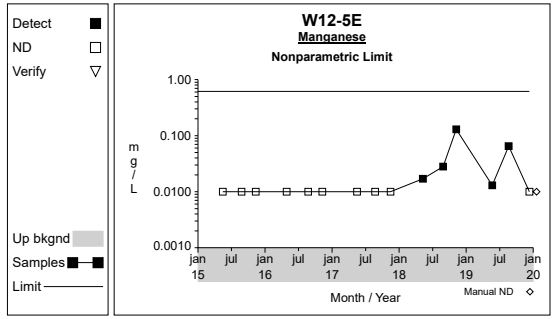
Up vs. Down Prediction Limits



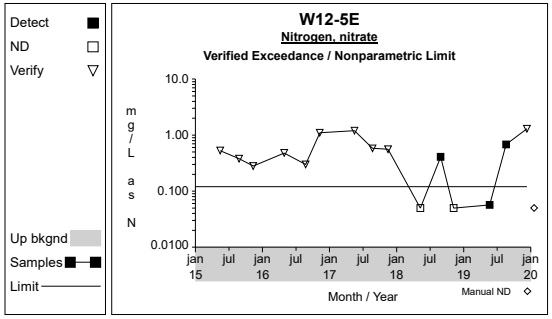
Graph 109



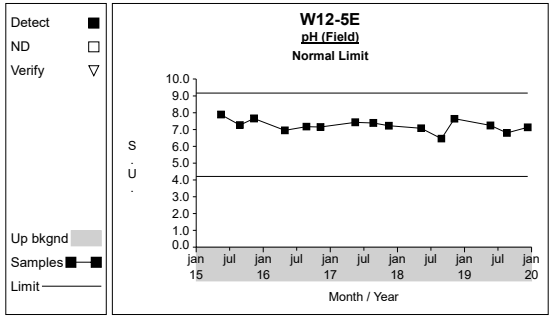
Graph 110



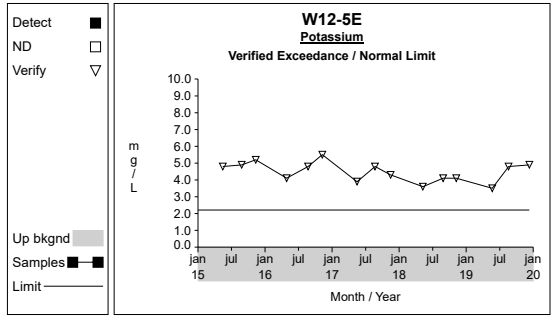
Graph 111



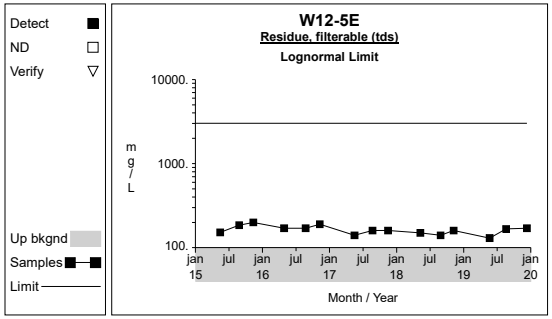
Graph 112



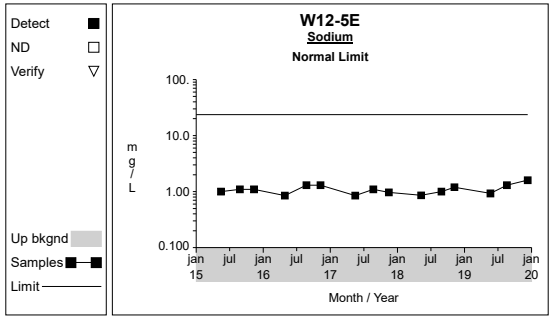
Graph 113



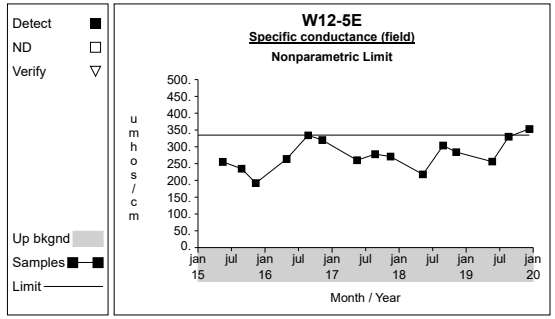
Graph 114



Graph 115

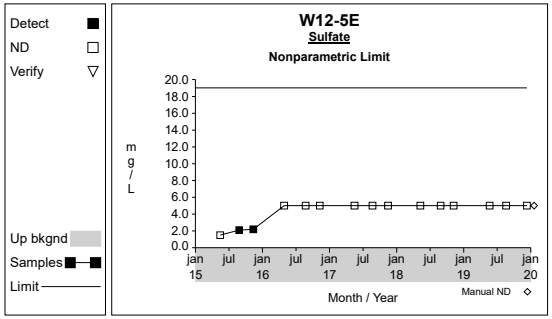


Graph 116

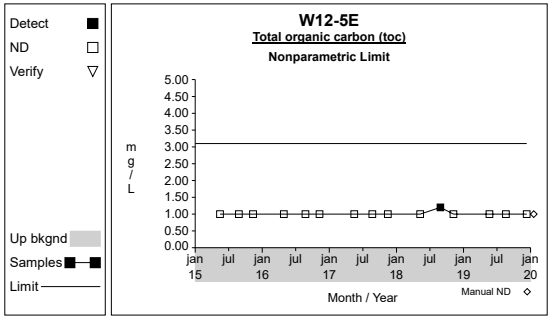


Graph 117

Up vs. Down Prediction Limits



Graph 118



Graph 119

Table 1

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic	mg/L	W11-1E/ER	11/11/2015	0.0056	< 0.0056	11/11/2015-11/11/2019	9	0.6346
Calcium	mg/L	W11-1E/ER	05/09/2017	10.0000		11/11/2015-11/11/2019	9	0.6808
Calcium	mg/L	W11-1E/ER	05/29/2018	11.0000		11/11/2015-11/11/2019	9	0.6808
Lead	mg/L	W11-1E/ER	05/09/2017	0.0064		05/06/2016-11/11/2019	7	0.6371
pH (Field)	S.U.	W11-1E/ER	11/19/2018	5.1800		11/11/2015-11/11/2019	9	0.6346
Specific conductance (field)	umhos/cm	W11-1E/ER	11/11/2015	152.0000		11/11/2015-11/11/2019	9	0.6346
Sulfate	mg/L	W11-1E/ER	11/11/2015	3.5000		11/11/2015-11/11/2019	9	0.6346
Sulfate	mg/L	W11-1E/ER	05/09/2017	7.2000		11/11/2015-11/11/2019	9	0.6346
Arsenic	mg/L	W11-2E	05/18/2015	0.0056	< 0.0056	05/18/2015-11/11/2019	15	0.6403
Arsenic	mg/L	W11-2E	08/20/2015	0.0056	< 0.0056	05/18/2015-11/11/2019	15	0.6403
Arsenic	mg/L	W11-2E	11/10/2015	0.0056	< 0.0056	05/18/2015-11/11/2019	15	0.6403
Calcium	mg/L	W11-2E	05/18/2015	13.4000		05/18/2015-11/11/2019	15	0.6177
Chloride	mg/L	W11-2E	05/18/2015	4.2000		05/18/2015-11/11/2019	15	0.6177
Manganese	mg/L	W11-2E	08/20/2015	0.0210		05/18/2015-11/11/2019	15	0.6403
Manganese	mg/L	W11-2E	08/17/2016	0.0120		05/18/2015-11/11/2019	15	0.6403
Specific conductance (field)	umhos/cm	W11-2E	08/20/2015	152.0000		05/18/2015-11/11/2019	15	0.6403
Specific conductance (field)	umhos/cm	W11-2E	11/10/2015	144.0000		05/18/2015-11/11/2019	15	0.6403
Sulfate	mg/L	W11-2E	05/18/2015	2.3000		05/18/2015-11/11/2019	15	0.6403
Sulfate	mg/L	W11-2E	08/20/2015	5.6000		05/18/2015-11/11/2019	15	0.6403
Sulfate	mg/L	W11-2E	11/10/2015	2.4000		05/18/2015-11/11/2019	15	0.6403
Sulfate	mg/L	W11-2E	04/28/2016	5.6000		05/18/2015-11/11/2019	15	0.6403
Arsenic	mg/L	W12-1E	05/14/2015	0.0056	< 0.0056	05/14/2015-11/25/2019	5	0.7819
Total organic carbon (toc)	mg/L	W12-1E	05/15/2017	1.6000		05/14/2015-11/25/2019	6	0.7819
Total organic carbon (toc)	mg/L	W12-1E	11/17/2017	2.2000		05/14/2015-11/25/2019	6	0.7819
Arsenic	mg/L	W12-2E	05/14/2015	0.0056	< 0.0056	05/14/2015-12/19/2019	15	0.6403
Arsenic	mg/L	W12-2E	08/18/2015	0.0056	< 0.0056	05/14/2015-12/19/2019	15	0.6403
Arsenic	mg/L	W12-2E	11/10/2015	0.0056	< 0.0056	05/14/2015-12/19/2019	15	0.6403
Iron	mg/L	W12-2E	08/18/2016	0.0470		05/14/2015-12/19/2019	15	0.6403
Iron	mg/L	W12-2E	12/19/2019	0.0830		05/14/2015-12/19/2019	15	0.6403
Sulfate	mg/L	W12-2E	05/14/2015	3.1000		05/14/2015-12/19/2019	15	0.6403
Sulfate	mg/L	W12-2E	11/10/2015	3.6000		05/14/2015-12/19/2019	15	0.6403

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 2

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Alkalinity, total (as caco3)	29	44	0.659	2.388	3.118					2.326	non-norm	nonpar
Arsenic	0	44	0.000	6.662	6.662					2.326	non-norm	nonpar
Calcium	44	44	1.000	3.187	2.846					2.326	non-norm	nonpar
Chloride	43	43	1.000	1.776	1.038					2.326	normal	normal
Dissolved oxygen (d.o.)	44	44	1.000	0.219	0.863					2.326	normal	normal
Iron	24	44	0.545	8.392	5.855					2.326	non-norm	nonpar
Lead	2	29	0.069	4.709	4.709					2.326	non-norm	nonpar
Magnesium	44	44	1.000	2.231	2.268					2.326	normal	normal
Manganese	12	44	0.273	7.307	6.583					2.326	non-norm	nonpar
Nitrogen, nitrate	4	44	0.091	6.547	6.501					2.326	non-norm	nonpar
pH (Field)	44	44	1.000	0.750	1.334					2.326	normal	normal
Potassium	44	44	1.000	0.319	0.290					2.326	normal	normal
Residue, filterable (tds)	38	44	0.864	3.000	1.666					2.326	lognor	lognor
Sodium	44	44	1.000	1.496	1.119					2.326	normal	normal
Specific conductance (field)	44	44	1.000	3.866	3.108					2.326	non-norm	nonpar
Sulfate	14	44	0.318	7.006	6.986					2.326	non-norm	nonpar
Total organic carbon (toc)	7	44	0.159	7.371	6.954					2.326	non-norm	nonpar

* - Distribution override for that constituent.
Fit to distribution is confirmed if G <= critical value.
Model type may not match distributional form when detection frequency < 50%.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Alkalinity, total (as caco3)	29	44	0.659	404	404	1.000
Arsenic	0	44	0.000	41	377	0.109
Calcium	44	44	1.000	403	403	1.000
Chloride	43	43	1.000	391	403	0.970
Dissolved oxygen (d.o.)	44	44	1.000	186	186	1.000
Iron	24	44	0.545	77	403	0.191
Lead	2	29	0.069	1	188	0.005
Magnesium	44	44	1.000	403	403	1.000
Manganese	12	44	0.273	185	403	0.459
Nitrogen, nitrate	4	44	0.091	210	349	0.602
pH (Field)	44	44	1.000	226	226	1.000
Potassium	44	44	1.000	401	403	0.995
Residue, filterable (tds)	38	44	0.864	401	402	0.998
Sodium	44	44	1.000	403	403	1.000
Specific conductance (field)	44	44	1.000	226	226	1.000
Sulfate	14	44	0.318	322	403	0.799
Total organic carbon (toc)	7	44	0.159	50	403	0.124

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Alkalinity, total (as caco3)	mg/L	29	44					140.0000	nonpar		0.99
Arsenic	mg/L	0	44					0.0090	nonpar	***	0.99
Calcium	mg/L	44	44					20.0000	nonpar		0.99
Chloride	mg/L	43	43	5.4977	4.8695	0.0100	2.4463	17.4100	normal		
Dissolved oxygen (d.o.)	mg/L	44	44	6.9000	3.0280	0.0100	2.4435	14.2988	normal		
Iron	mg/L	24	44					4.8000	nonpar		0.99
Lead	mg/L	2	29					0.0064	nonpar		0.99
Magnesium	mg/L	44	44	8.3566	6.5704	0.0100	2.4435	24.4112	normal		
Manganese	mg/L	12	44					0.6150	nonpar		0.99
Nitrogen, nitrate	mg/L as N	4	44					0.1200	nonpar		0.99
pH (Field)	S.U.	44	44	6.6859	0.9083	0.0100	2.7254	4.21 - 9.16	normal		
Potassium	mg/L	44	44	0.9408	0.5194	0.0100	2.4435	2.2099	normal		
Residue, filterable (tds)	mg/L	38	44	3.6878	1.7686	0.0100	2.4435	3008.5158	lognor		
Sodium	mg/L	44	44	8.0057	6.3710	0.0100	2.4435	23.5731	normal		
Specific conductance (field)	umhos/cm	44	44					335.0000	nonpar		0.99
Sulfate	mg/L	14	44					19.0000	nonpar		0.99
Total organic carbon (toc)	mg/L	7	44					3.1000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 5

Results of Interwell Analyses

Constituent	Units	Well	Date		Result		Pred. Limit
Alkalinity, total (as caco3)	mg/L	W11-3E	11/14/2019		140.0000		140.0000
Arsenic	mg/L	W11-3E	11/14/2019	ND	0.0090		0.0090
Calcium	mg/L	W11-3E	11/14/2019		22.0000	***	20.0000
Chloride	mg/L	W11-3E	11/14/2019		2.7000		17.4100
Dissolved oxygen (d.o.)	mg/L	W11-3E	11/14/2019		14.6000	*	14.2988
Iron	mg/L	W11-3E	11/14/2019		0.0370		4.8000
Lead	mg/L	W11-3E	11/14/2019	ND	0.0050		0.0064
Magnesium	mg/L	W11-3E	11/14/2019		15.0000		24.4112
Manganese	mg/L	W11-3E	11/14/2019		0.0130		0.6150
Nitrogen, nitrate	mg/L as N	W11-3E	11/14/2019		0.2500	***	0.1200
pH (Field)	S.U.	W11-3E	11/14/2019		8.0900		4.21 - 9.16
Potassium	mg/L	W11-3E	11/14/2019		1.8000		2.2099
Residue, filterable (tds)	mg/L	W11-3E	11/14/2019		140.0000		3008.5158
Sodium	mg/L	W11-3E	11/14/2019		12.0000		23.5731
Specific conductance (field)	umhos/cm	W11-3E	11/14/2019		300.0000		335.0000
Sulfate	mg/L	W11-3E	11/14/2019	ND	5.0000		19.0000
Total organic carbon (toc)	mg/L	W11-3E	11/14/2019	ND	1.0000		3.1000
Alkalinity, total (as caco3)	mg/L	W11-4E	11/08/2019		260.0000	***	140.0000
Arsenic	mg/L	W11-4E	11/08/2019	ND	0.0090		0.0090
Calcium	mg/L	W11-4E	11/08/2019		47.0000	***	20.0000
Chloride	mg/L	W11-4E	11/08/2019		4.8000		17.4100
Dissolved oxygen (d.o.)	mg/L	W11-4E	11/08/2019		5.1000		14.2988
Iron	mg/L	W11-4E	11/08/2019	ND	0.0300		4.8000
Lead	mg/L	W11-4E	11/08/2019	ND	0.0050		0.0064
Magnesium	mg/L	W11-4E	11/08/2019		40.0000	***	24.4112
Manganese	mg/L	W11-4E	11/08/2019		0.0190		0.6150
Nitrogen, nitrate	mg/L as N	W11-4E	11/08/2019	ND	0.0500		0.1200
pH (Field)	S.U.	W11-4E	11/08/2019		6.6000		4.21 - 9.16
Potassium	mg/L	W11-4E	11/08/2019		3.1000	***	2.2099
Residue, filterable (tds)	mg/L	W11-4E	11/08/2019		300.0000		3008.5158
Sodium	mg/L	W11-4E	11/08/2019		18.0000		23.5731
Specific conductance (field)	umhos/cm	W11-4E	11/08/2019		550.0000	***	335.0000
Sulfate	mg/L	W11-4E	11/08/2019		20.0000	*	19.0000
Total organic carbon (toc)	mg/L	W11-4E	11/08/2019	ND	1.0000		3.1000
Alkalinity, total (as caco3)	mg/L	W11-5E	11/08/2019		100.0000		140.0000
Arsenic	mg/L	W11-5E	11/08/2019		0.0130	***	0.0090
Calcium	mg/L	W11-5E	11/08/2019		18.0000		20.0000
Chloride	mg/L	W11-5E	11/08/2019		2.1000		17.4100
Dissolved oxygen (d.o.)	mg/L	W11-5E	11/08/2019		2.7000		14.2988
Iron	mg/L	W11-5E	11/08/2019	ND	0.0300		4.8000
Lead	mg/L	W11-5E	11/08/2019	ND	0.0050		0.0064
Magnesium	mg/L	W11-5E	11/08/2019		10.0000		24.4112
Manganese	mg/L	W11-5E	11/08/2019		0.1200		0.6150
Nitrogen, nitrate	mg/L as N	W11-5E	11/08/2019	ND	0.0500		0.1200
pH (Field)	S.U.	W11-5E	11/08/2019		6.9200		4.21 - 9.16
Potassium	mg/L	W11-5E	11/08/2019		1.1000		2.2099
Residue, filterable (tds)	mg/L	W11-5E	11/08/2019		82.5000		3008.5158
Sodium	mg/L	W11-5E	11/08/2019		6.3000		23.5731
Specific conductance (field)	umhos/cm	W11-5E	11/08/2019		192.0000		335.0000
Sulfate	mg/L	W11-5E	11/08/2019	ND	5.0000		19.0000
Total organic carbon (toc)	mg/L	W11-5E	11/08/2019	ND	1.0000		3.1000
Alkalinity, total (as caco3)	mg/L	W11-6E	11/19/2019		65.0000		140.0000
Arsenic	mg/L	W11-6E	11/19/2019	ND	0.0090		0.0090
Calcium	mg/L	W11-6E	11/19/2019		22.0000	*	20.0000
Chloride	mg/L	W11-6E	11/19/2019		2.5000		17.4100
Dissolved oxygen (d.o.)	mg/L	W11-6E	11/19/2019		3.3000		14.2988
Iron	mg/L	W11-6E	11/19/2019	ND	0.0300		4.8000
Lead	mg/L	W11-6E	11/19/2019	ND	0.0050		0.0064
Magnesium	mg/L	W11-6E	11/19/2019		18.0000		24.4112
Manganese	mg/L	W11-6E	11/19/2019		0.0170		0.6150
Nitrogen, nitrate	mg/L as N	W11-6E	11/19/2019	ND	0.0500	**	0.1200
pH (Field)	S.U.	W11-6E	11/19/2019		6.6000		4.21 - 9.16
Potassium	mg/L	W11-6E	11/19/2019		1.5000		2.2099
Residue, filterable (tds)	mg/L	W11-6E	11/19/2019		130.0000		3008.5158
Sodium	mg/L	W11-6E	11/19/2019		9.1000		23.5731
Specific conductance (field)	umhos/cm	W11-6E	11/19/2019		134.0000		335.0000
Sulfate	mg/L	W11-6E	11/19/2019		19.0000		19.0000
Total organic carbon (toc)	mg/L	W11-6E	11/19/2019	ND	1.0000		3.1000
Alkalinity, total (as caco3)	mg/L	W12-3E	11/20/2019		200.0000	***	140.0000
Arsenic	mg/L	W12-3E	11/20/2019	ND	0.0090		0.0090
Calcium	mg/L	W12-3E	11/20/2019		35.0000	***	20.0000
Chloride	mg/L	W12-3E	11/20/2019		2.0000		17.4100
Dissolved oxygen (d.o.)	mg/L	W12-3E	11/20/2019		9.7000		14.2988
Iron	mg/L	W12-3E	11/20/2019	ND	0.0300		4.8000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 5

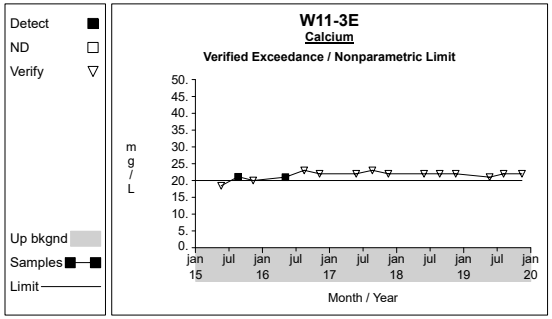
Results of Interwell Analyses

Constituent	Units	Well	Date		Result		Pred. Limit
Lead	mg/L	W12-3E	11/20/2019	ND	0.0050		0.0064
Magnesium	mg/L	W12-3E	11/20/2019		18.0000		24.4112
Manganese	mg/L	W12-3E	11/20/2019	ND	0.0100		0.6150
Nitrogen, nitrate	mg/L as N	W12-3E	11/20/2019		1.0000	***	0.1200
pH (Field)	S.U.	W12-3E	11/20/2019		7.1200		4.21 - 9.16
Potassium	mg/L	W12-3E	11/20/2019	ND	0.2000		2.2099
Residue, filterable (tds)	mg/L	W12-3E	11/20/2019		169.5000		3008.5158
Sodium	mg/L	W12-3E	11/20/2019		7.7000		23.5731
Specific conductance (field)	umhos/cm	W12-3E	11/20/2019		358.0000	***	335.0000
Sulfate	mg/L	W12-3E	11/20/2019	ND	5.0000		19.0000
Total organic carbon (toc)	mg/L	W12-3E	11/20/2019		1.2000		3.1000
Alkalinity, total (as caco3)	mg/L	W12-4E	11/11/2019		89.0000		140.0000
Arsenic	mg/L	W12-4E	11/11/2019	ND	0.0090		0.0090
Calcium	mg/L	W12-4E	11/11/2019		11.0000		20.0000
Chloride	mg/L	W12-4E	11/11/2019		0.6500		17.4100
Dissolved oxygen (d.o.)	mg/L	W12-4E	11/11/2019		11.9000		14.2988
Iron	mg/L	W12-4E	11/11/2019	ND	0.0300		4.8000
Lead	mg/L	W12-4E	11/11/2019	ND	0.0050		0.0064
Magnesium	mg/L	W12-4E	11/11/2019		10.0000		24.4112
Manganese	mg/L	W12-4E	11/11/2019	ND	0.0100		0.6150
Nitrogen, nitrate	mg/L as N	W12-4E	11/11/2019		0.3300	***	0.1200
pH (Field)	S.U.	W12-4E	11/11/2019		6.9300		4.21 - 9.16
Potassium	mg/L	W12-4E	11/11/2019		0.7700		2.2099
Residue, filterable (tds)	mg/L	W12-4E	11/11/2019		83.0000		3008.5158
Sodium	mg/L	W12-4E	11/11/2019		9.9000		23.5731
Specific conductance (field)	umhos/cm	W12-4E	11/11/2019		184.0000		335.0000
Sulfate	mg/L	W12-4E	11/11/2019		8.7000		19.0000
Total organic carbon (toc)	mg/L	W12-4E	11/11/2019	ND	1.0000		3.1000
Alkalinity, total (as caco3)	mg/L	W12-5E	12/10/2019		170.0000	***	140.0000
Arsenic	mg/L	W12-5E	12/10/2019	ND	0.0090		0.0090
Calcium	mg/L	W12-5E	12/10/2019		59.0000	***	20.0000
Chloride	mg/L	W12-5E	12/10/2019		0.5500		17.4100
Dissolved oxygen (d.o.)	mg/L	W12-5E	12/10/2019		2.2000		14.2988
Iron	mg/L	W12-5E	12/10/2019		0.0380		4.8000
Lead	mg/L	W12-5E	12/10/2019	ND	0.0050		0.0064
Magnesium	mg/L	W12-5E	12/10/2019		6.0000		24.4112
Manganese	mg/L	W12-5E	12/10/2019	ND	0.0100		0.6150
Nitrogen, nitrate	mg/L as N	W12-5E	12/10/2019		1.3000	***	0.1200
pH (Field)	S.U.	W12-5E	12/10/2019		7.1300		4.21 - 9.16
Potassium	mg/L	W12-5E	12/10/2019		4.9000	***	2.2099
Residue, filterable (tds)	mg/L	W12-5E	12/10/2019		170.0000		3008.5158
Sodium	mg/L	W12-5E	12/10/2019		1.6000		23.5731
Specific conductance (field)	umhos/cm	W12-5E	12/10/2019		353.0000	*	335.0000
Sulfate	mg/L	W12-5E	12/10/2019	ND	5.0000		19.0000
Total organic carbon (toc)	mg/L	W12-5E	12/10/2019	ND	1.0000		3.1000

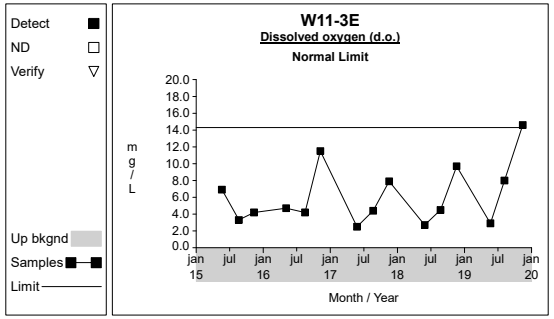
* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Phreatic Zone – Statistically Significant Results Only

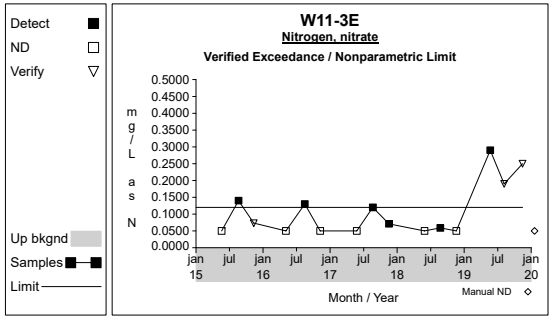
Up vs. Down Prediction Limits



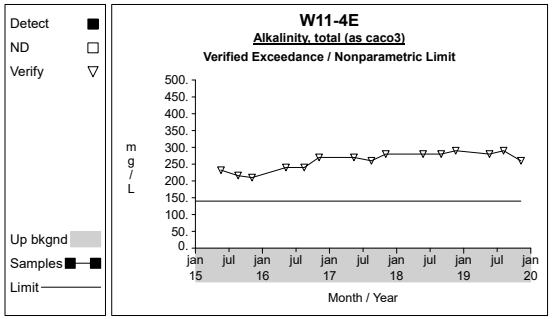
Graph 3



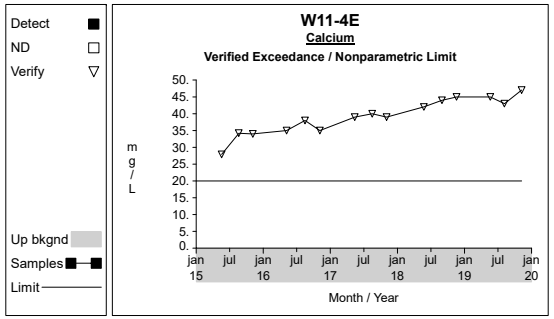
Graph 5



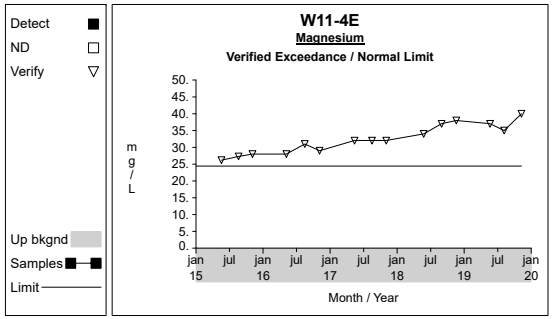
Graph 10



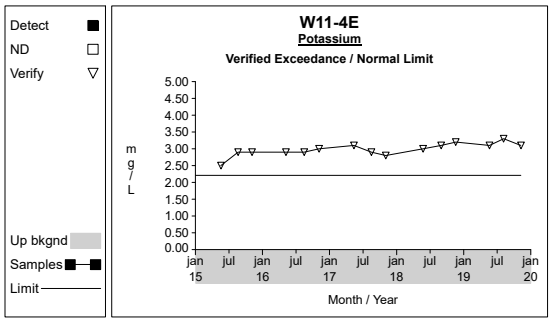
Graph 18



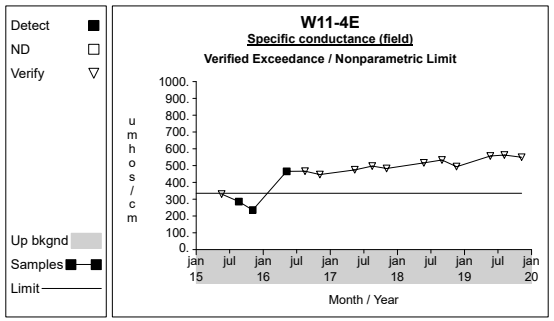
Graph 20



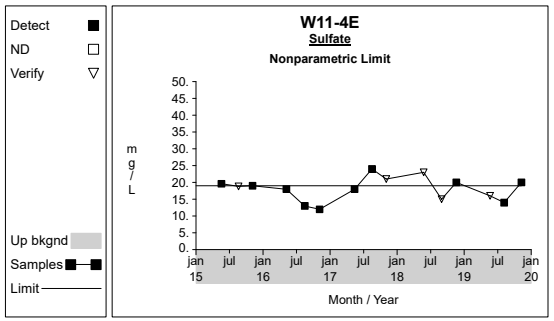
Graph 25



Graph 29

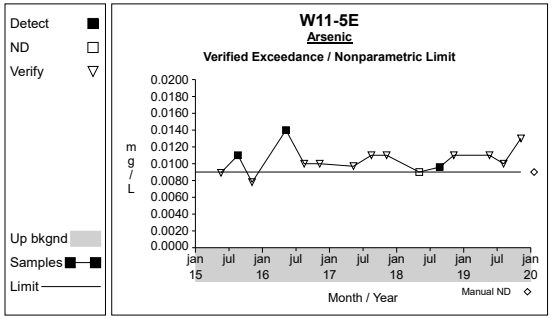


Graph 32

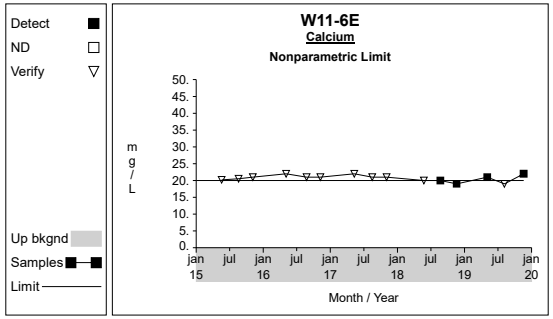


Graph 33

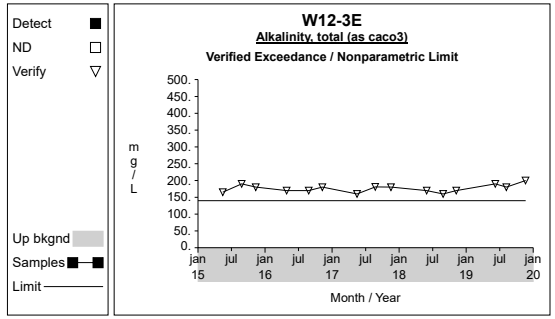
Up vs. Down Prediction Limits



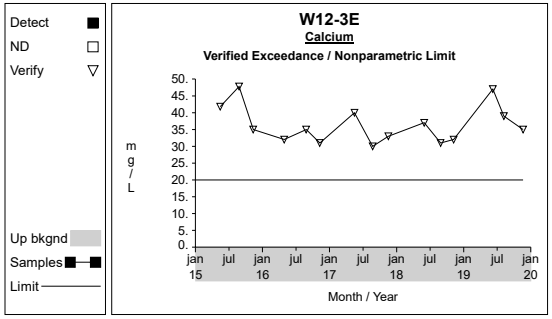
Graph 36



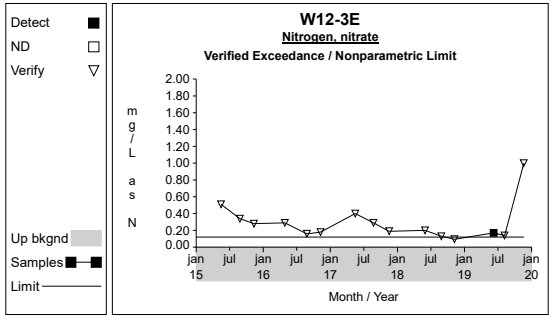
Graph 54



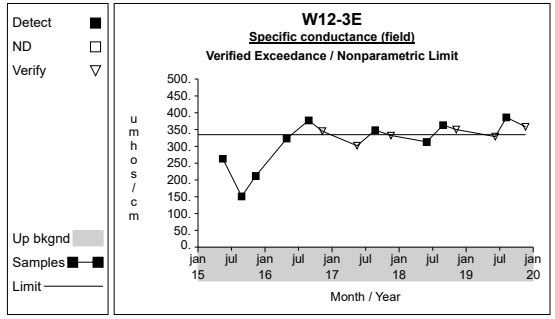
Graph 69



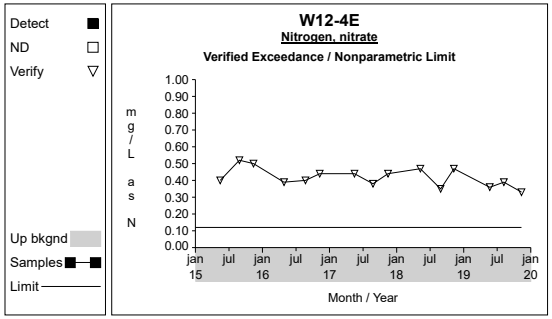
Graph 71



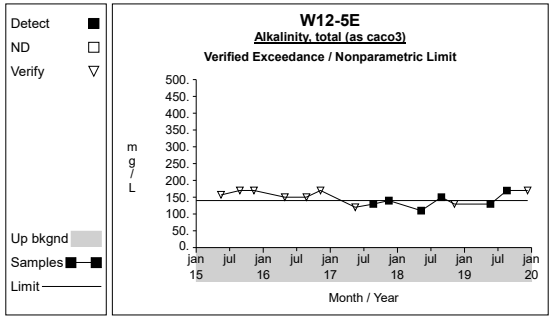
Graph 78



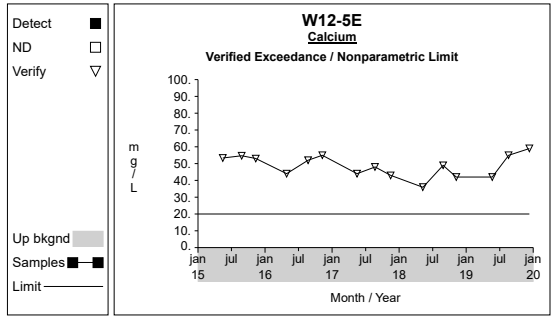
Graph 83



Graph 95

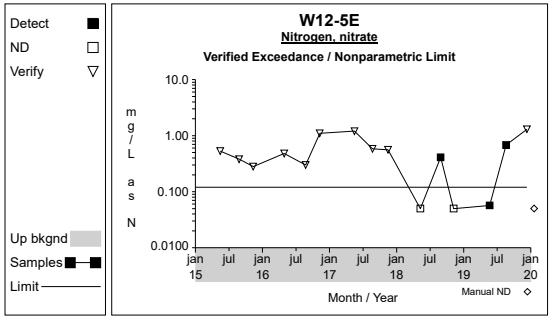


Graph 103

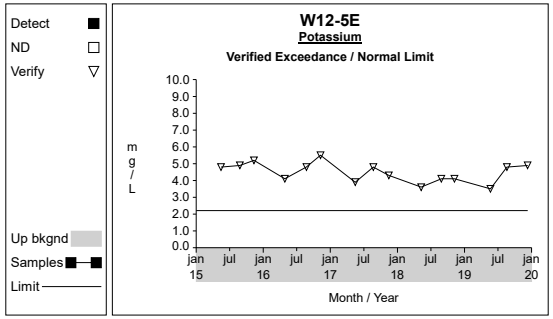


Graph 105

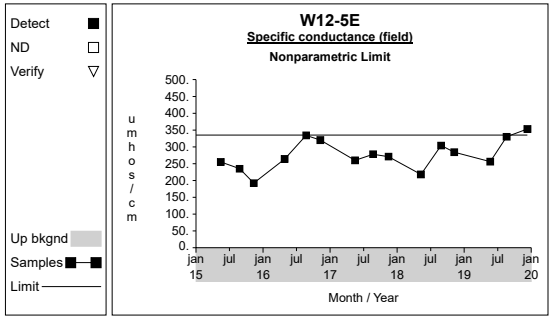
Up vs. Down Prediction Limits



Graph 112



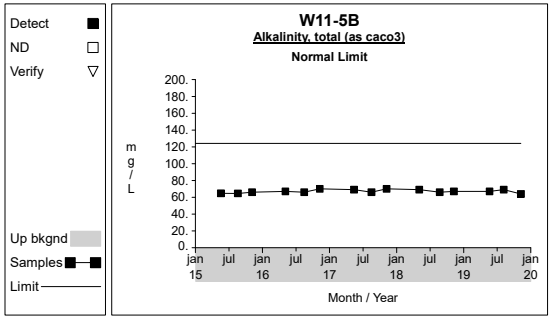
Graph 114



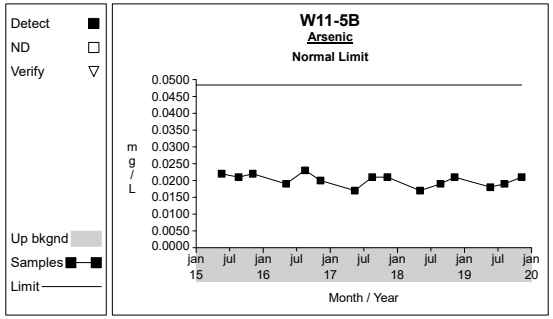
Graph 117

Till Zone Results

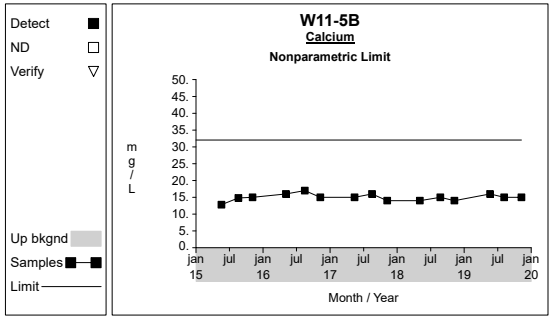
Up vs. Down Prediction Limits



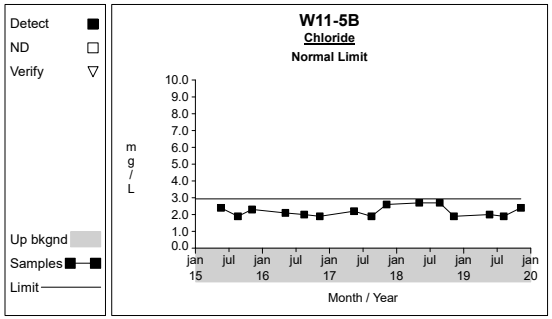
Graph 1



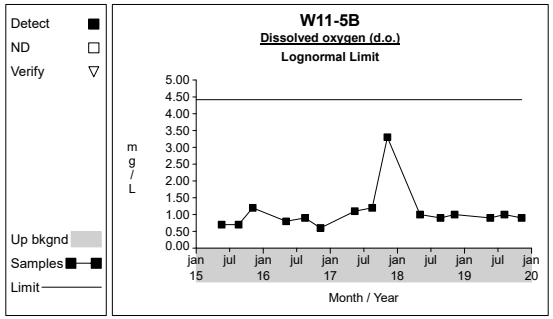
Graph 2



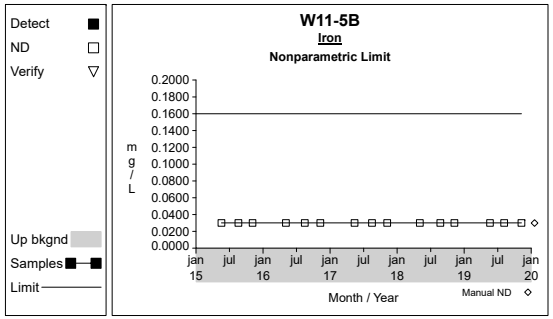
Graph 3



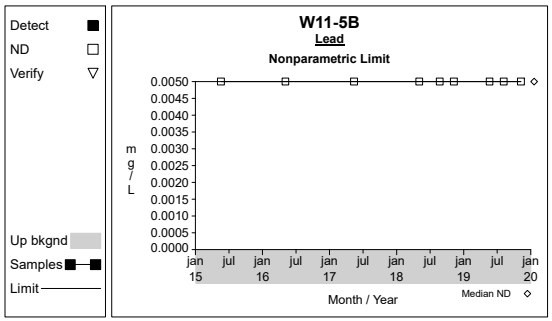
Graph 4



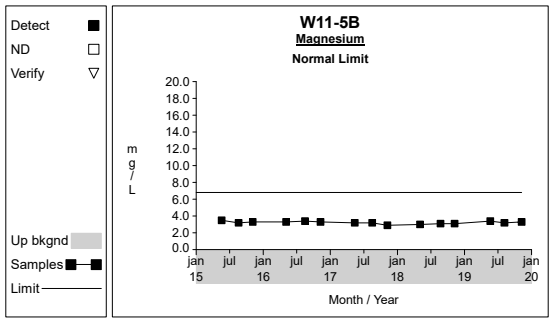
Graph 5



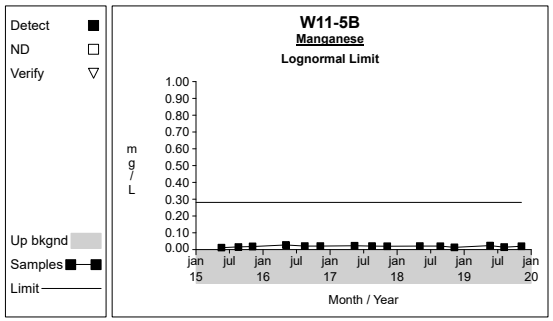
Graph 6



Graph 7

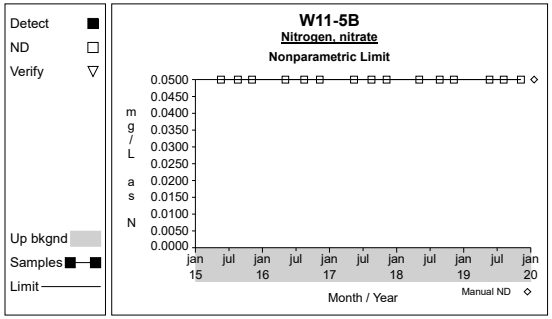


Graph 8

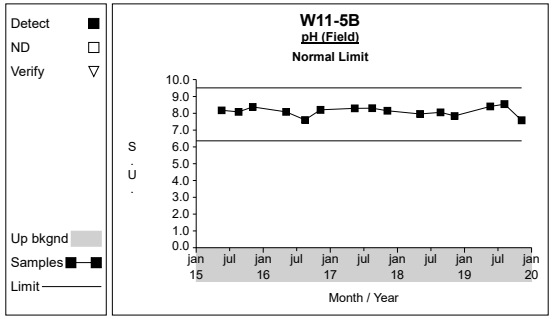


Graph 9

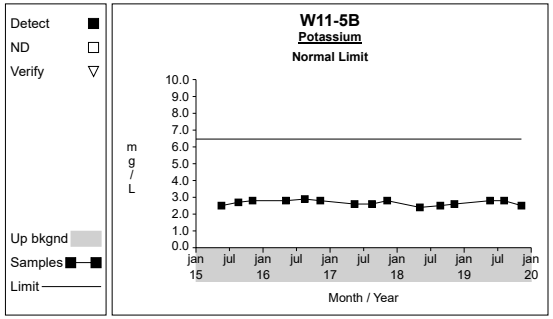
Up vs. Down Prediction Limits



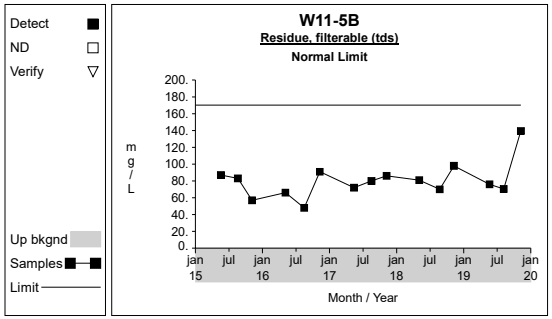
Graph 10



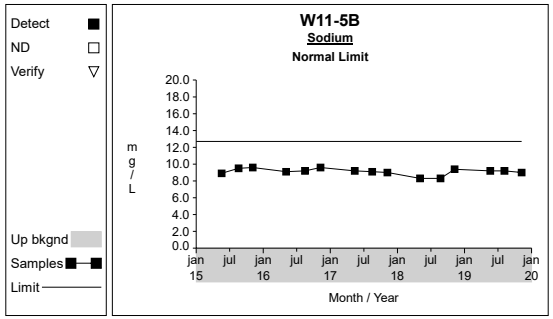
Graph 11



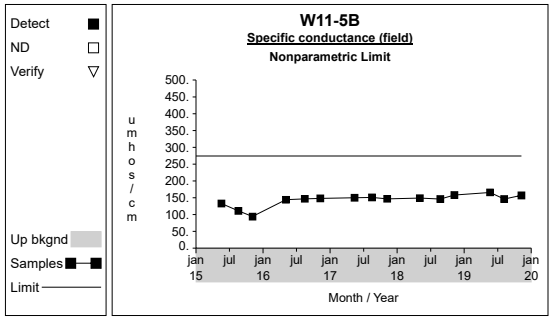
Graph 12



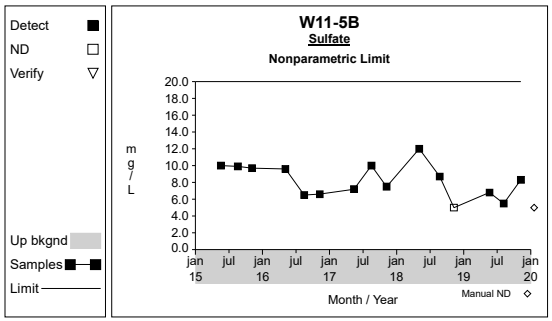
Graph 13



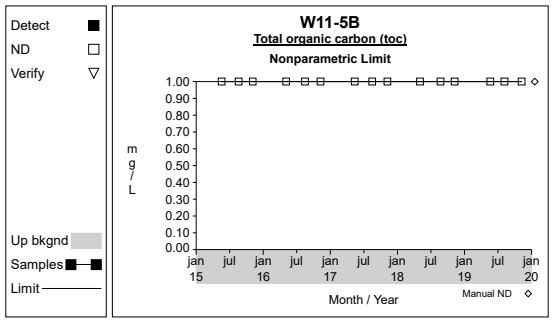
Graph 14



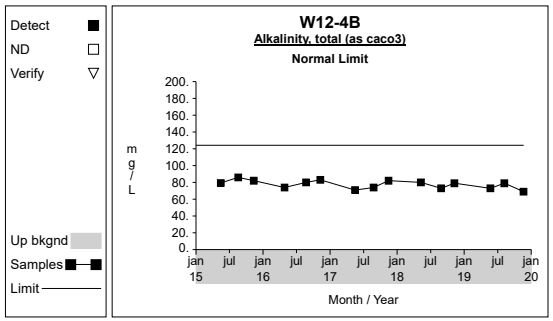
Graph 15



Graph 16

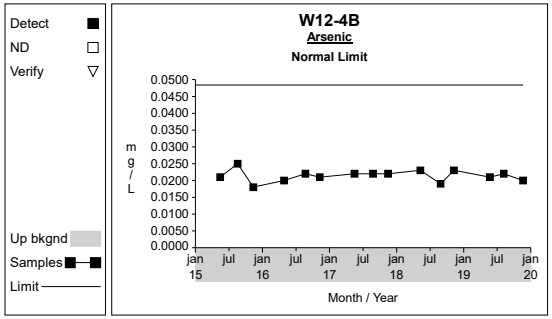


Graph 17

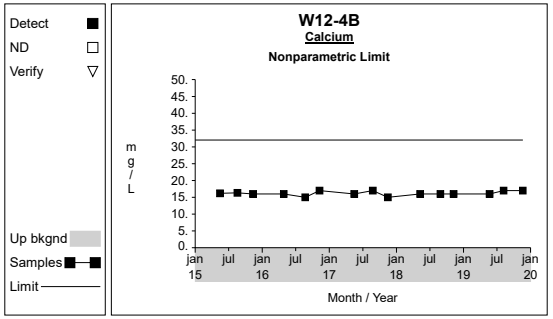


Graph 18

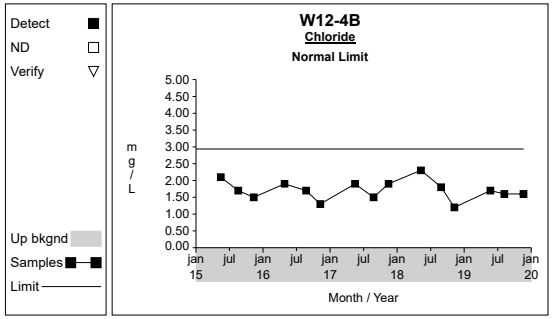
Up vs. Down Prediction Limits



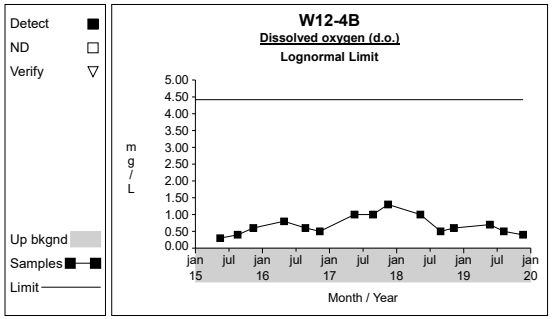
Graph 19



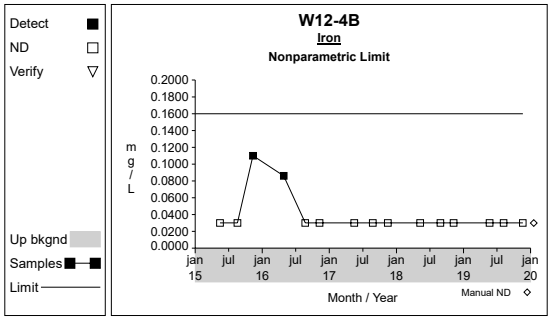
Graph 20



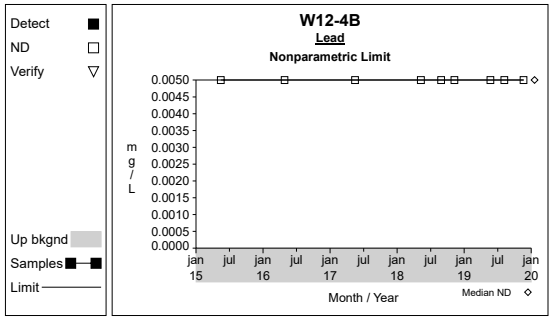
Graph 21



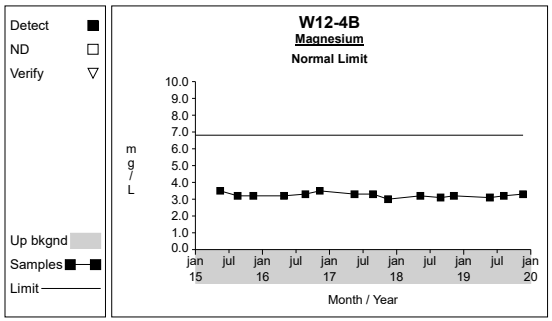
Graph 22



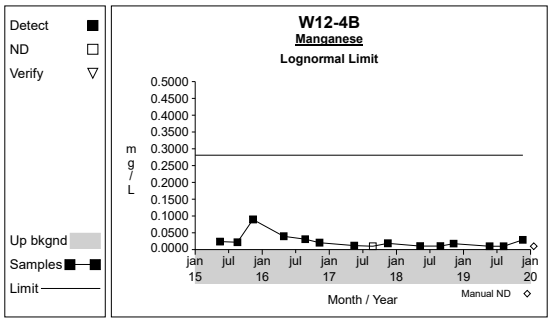
Graph 23



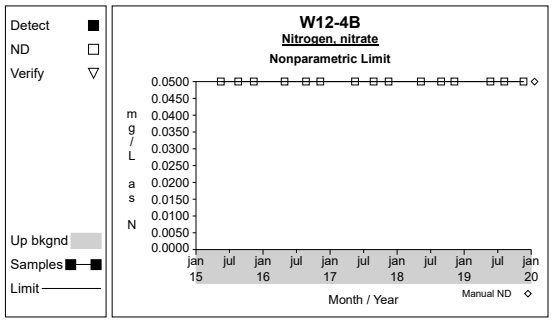
Graph 24



Graph 25

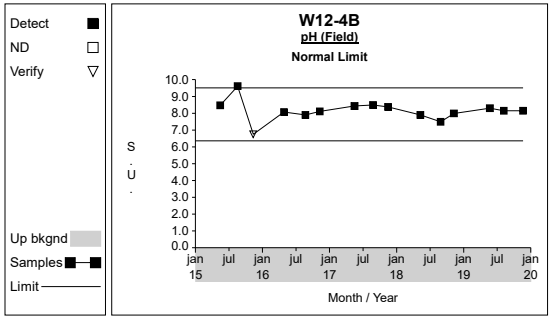


Graph 26

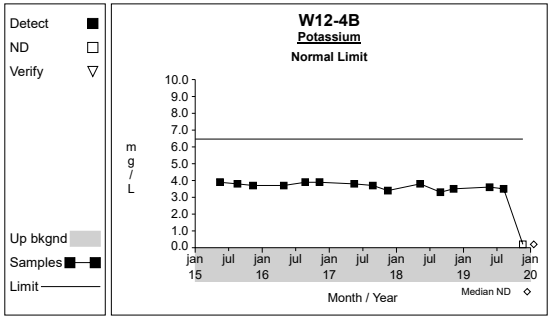


Graph 27

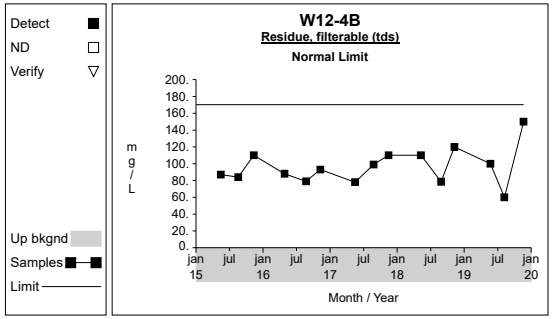
Up vs. Down Prediction Limits



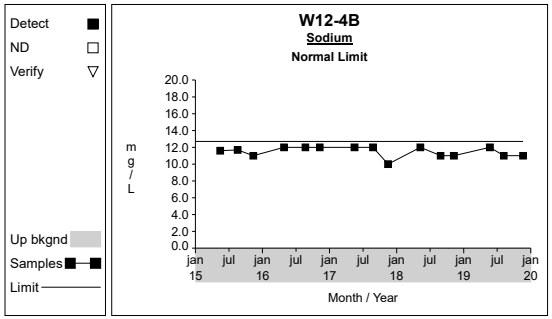
Graph 28



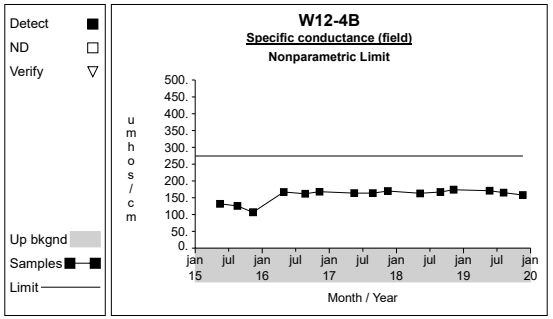
Graph 29



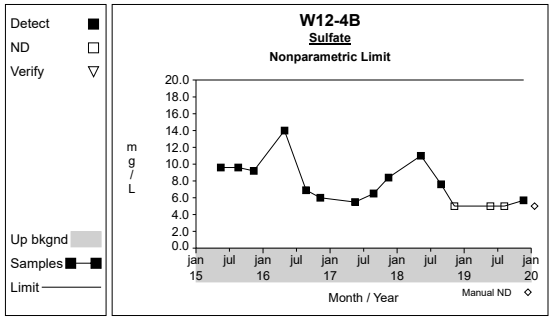
Graph 30



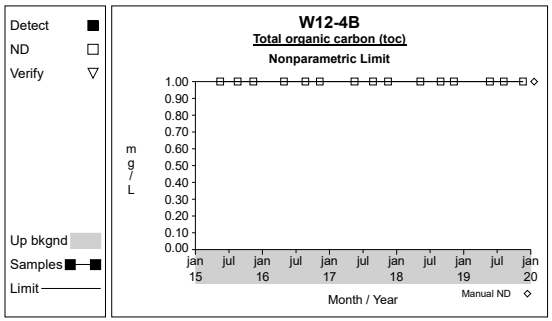
Graph 31



Graph 32



Graph 33



Graph 34

Table 1

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Iron	mg/L	W11-1B	05/06/2016	0.0400		05/19/2015-12/10/2019	15	0.6403
Iron	mg/L	W11-1B	05/08/2017	0.1600		05/19/2015-12/10/2019	15	0.6403
Specific conductance (field)	umhos/cm	W11-1B	08/20/2015	108.0000		05/19/2015-12/10/2019	15	0.6403
Specific conductance (field)	umhos/cm	W11-1B	11/10/2015	101.0000		05/19/2015-12/10/2019	15	0.6403
Sulfate	mg/L	W11-1B	05/19/2015	7.7000		05/19/2015-12/10/2019	15	0.6177
Sulfate	mg/L	W11-1B	08/20/2015	2.4000		05/19/2015-12/10/2019	15	0.6403
Sulfate	mg/L	W11-1B	11/10/2015	2.9000		05/19/2015-12/10/2019	15	0.6403
Calcium	mg/L	W12-1B	08/07/2019	26.0000		05/14/2015-11/13/2019	15	0.6177
Iron	mg/L	W12-1B	05/14/2015	0.0850		05/14/2015-11/13/2019	15	0.6177
Magnesium	mg/L	W12-1B	08/07/2019	4.9000		05/14/2015-11/13/2019	15	0.6177

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 2

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Alkalinity, total (as caco3)	30	30	1.000	1.491	1.410					2.326	normal	normal
Arsenic	29	30	0.967	1.118	1.074					2.326	normal	normal
Calcium	30	30	1.000	2.759	2.981					2.326	non-norm	nonpar
Chloride	29	30	0.967	1.318	0.599					2.326	normal	normal
Dissolved oxygen (d.o.)	28	28	1.000	2.382	0.409					2.326	lognor	lognor
Iron	5	30	0.167	9.219	8.174					2.326	non-norm	nonpar
Lead	0	18	0.000	4.197	4.197					2.326	non-norm	nonpar
Magnesium	30	30	1.000	0.548	0.519					2.326	normal	normal
Manganese	30	30	1.000	3.437	0.429					2.326	lognor	lognor
Nitrogen, nitrate	0	30	0.000	6.184	6.184					2.326	non-norm	nonpar
pH (Field)	30	30	1.000	1.129	1.311					2.326	normal	normal
Potassium	30	30	1.000	1.292	1.531					2.326	normal	normal
Residue, filterable (tds)	30	30	1.000	2.053	1.608					2.326	normal	normal
Sodium	30	30	1.000	0.488	0.436					2.326	normal	normal
Specific conductance (field)	30	30	1.000	2.466	3.053					2.326	non-norm	nonpar
Sulfate	15	30	0.500	4.214	3.311					2.326	non-norm	nonpar
Total organic carbon (toc)	1	30	0.033	6.184	6.184					2.326	non-norm	nonpar

* - Distribution override for that constituent.
Fit to distribution is confirmed if G <= critical value.
Model type may not match distributional form when detection frequency < 50%.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Alkalinity, total (as caco3)	30	30	1.000	114	114	1.000
Arsenic	29	30	0.967	106	107	0.991
Calcium	30	30	1.000	114	114	1.000
Chloride	29	30	0.967	105	113	0.929
Dissolved oxygen (d.o.)	28	28	1.000	53	53	1.000
Iron	5	30	0.167	30	114	0.263
Lead	0	18	0.000	1	53	0.019
Magnesium	30	30	1.000	114	114	1.000
Manganese	30	30	1.000	113	114	0.991
Nitrogen, nitrate	0	30	0.000	3	100	0.030
pH (Field)	30	30	1.000	65	65	1.000
Potassium	30	30	1.000	113	114	0.991
Residue, filterable (tds)	30	30	1.000	113	113	1.000
Sodium	30	30	1.000	114	114	1.000
Specific conductance (field)	30	30	1.000	65	65	1.000
Sulfate	15	30	0.500	110	114	0.965
Total organic carbon (toc)	1	30	0.033	3	114	0.026

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Alkalinity, total (as caco3)	mg/L	30	30	92.5633	12.6168	0.0100	2.5024	124.1359	normal		
Arsenic	mg/L	29	30	0.0213	0.0108	0.0100	2.5024	0.0484	normal		
Calcium	mg/L	30	30					32.0000	nonpar		0.99
Chloride	mg/L	29	30	1.5020	0.5728	0.0100	2.5024	2.9354	normal		
Dissolved oxygen (d.o.)	mg/L	28	28	-0.2084	0.6729	0.0100	2.5161	4.4132	lognor		
Iron	mg/L	5	30					0.1600	nonpar		0.99
Lead	mg/L	0	18					0.0050	nonpar	***	0.99
Magnesium	mg/L	30	30	5.9167	0.3563	0.0100	2.5024	6.8083	normal		
Manganese	mg/L	30	30	-3.3714	0.8397	0.0100	2.5024	0.2808	lognor		
Nitrogen, nitrate	mg/L as N	0	30					0.0500	nonpar	***	0.99
pH (Field)	S.U.	30	30	7.9330	0.5626	0.0100	2.8014	6.36 - 9.51	normal		
Potassium	mg/L	30	30	2.9900	1.3882	0.0100	2.5024	6.4639	normal		
Residue, filterable (tds)	mg/L	30	30	96.0000	29.7017	0.0100	2.5024	170.3264	normal		
Sodium	mg/L	30	30	6.1833	2.6017	0.0100	2.5024	12.6940	normal		
Specific conductance (field)	umhos/cm	30	30					274.0000	nonpar		0.99
Sulfate	mg/L	15	30					20.0000	nonpar		0.99
Total organic carbon (toc)	mg/L	1	30					1.0000	nonpar	***	0.99

Conf = confidence level for passing initial test or one of two verification resamples at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 5

Results of Interwell Analyses

Constituent	Units	Well	Date		Result	Pred. Limit
Alkalinity, total (as caco3)	mg/L	W11-5B	11/08/2019		64.0000	124.1359
Arsenic	mg/L	W11-5B	11/08/2019		0.0210	0.0484
Calcium	mg/L	W11-5B	11/08/2019		15.0000	32.0000
Chloride	mg/L	W11-5B	11/08/2019		2.4000	2.9354
Dissolved oxygen (d.o.)	mg/L	W11-5B	11/08/2019		0.9000	4.4132
Iron	mg/L	W11-5B	11/08/2019	ND	0.0300	0.1600
Lead	mg/L	W11-5B	11/08/2019	ND	0.0050	0.0050
Magnesium	mg/L	W11-5B	11/08/2019		3.3000	6.8083
Manganese	mg/L	W11-5B	11/08/2019		0.0200	0.2808
Nitrogen, nitrate	mg/L as N	W11-5B	11/08/2019	ND	0.0500	0.0500
pH (Field)	S.U.	W11-5B	11/08/2019		7.5800	6.36 - 9.51
Potassium	mg/L	W11-5B	11/08/2019		2.5000	6.4639
Residue, filterable (tds)	mg/L	W11-5B	11/08/2019		139.5000	170.3264
Sodium	mg/L	W11-5B	11/08/2019		9.0000	12.6940
Specific conductance (field)	umhos/cm	W11-5B	11/08/2019		157.0000	274.0000
Sulfate	mg/L	W11-5B	11/08/2019		8.3000	20.0000
Total organic carbon (toc)	mg/L	W11-5B	11/08/2019	ND	1.0000	1.0000
Alkalinity, total (as caco3)	mg/L	W12-4B	11/20/2019		69.0000	124.1359
Arsenic	mg/L	W12-4B	11/20/2019		0.0200	0.0484
Calcium	mg/L	W12-4B	11/20/2019		17.0000	32.0000
Chloride	mg/L	W12-4B	11/20/2019		1.6000	2.9354
Dissolved oxygen (d.o.)	mg/L	W12-4B	11/20/2019		0.4000	4.4132
Iron	mg/L	W12-4B	11/20/2019	ND	0.0300	0.1600
Lead	mg/L	W12-4B	11/20/2019	ND	0.0050	0.0050
Magnesium	mg/L	W12-4B	11/20/2019		3.3000	6.8083
Manganese	mg/L	W12-4B	11/20/2019		0.0290	0.2808
Nitrogen, nitrate	mg/L as N	W12-4B	11/20/2019	ND	0.0500	0.0500
pH (Field)	S.U.	W12-4B	11/20/2019		8.1500	6.36 - 9.51
Potassium	mg/L	W12-4B	11/20/2019	ND	0.2000	6.4639
Residue, filterable (tds)	mg/L	W12-4B	11/20/2019		150.0000	170.3264
Sodium	mg/L	W12-4B	11/20/2019		11.0000	12.6940
Specific conductance (field)	umhos/cm	W12-4B	11/20/2019		158.0000	274.0000
Sulfate	mg/L	W12-4B	11/20/2019		5.7000	20.0000
Total organic carbon (toc)	mg/L	W12-4B	11/20/2019	ND	1.0000	1.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Till Zone – Statistically Significant Results Only

ATTACHMENT C.

ORP GRAPHS – LINEAR REGRESSION WITH 99% CONFIDENCE BANDS

Upgradient Wells - Phreatic Zone

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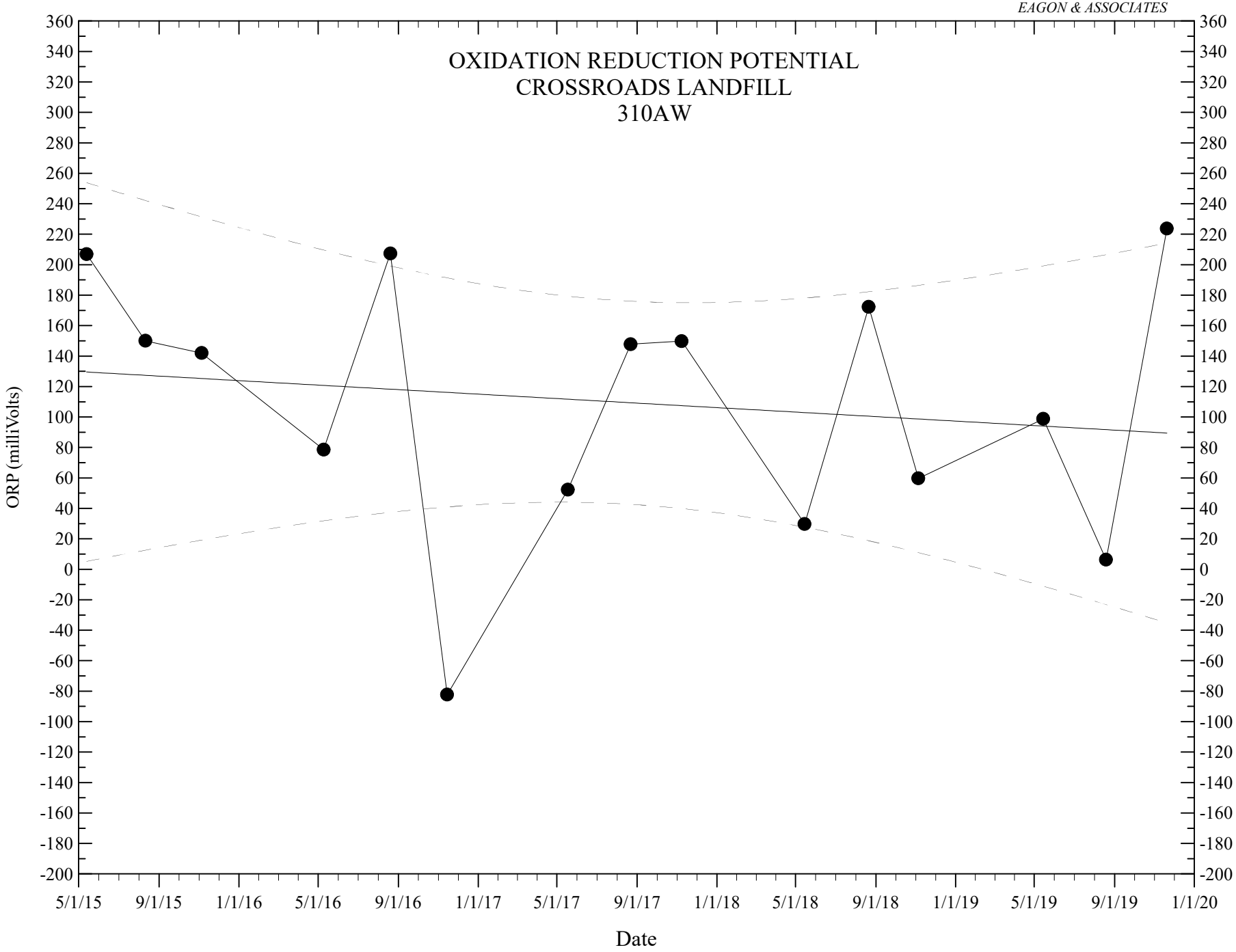
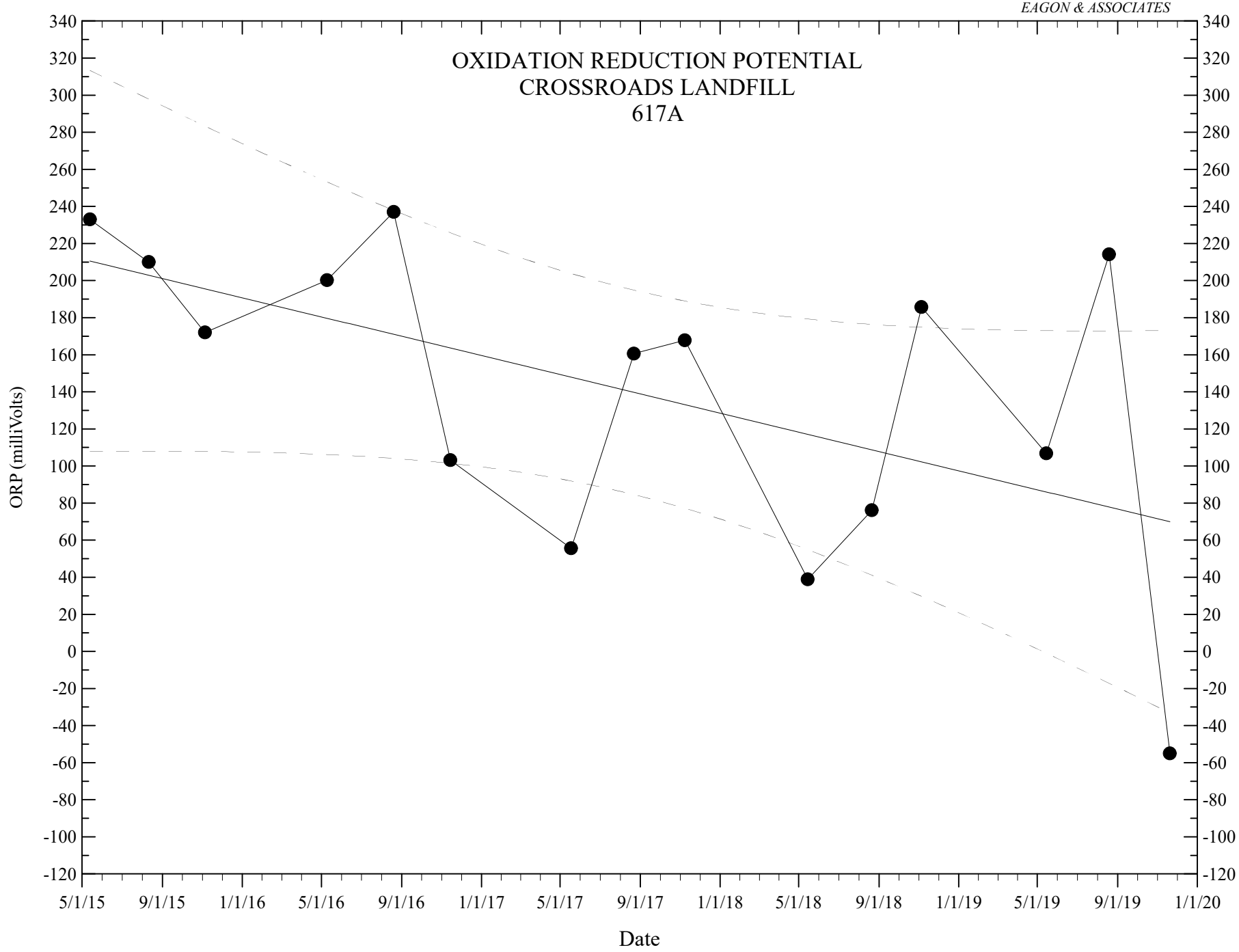


Crossroads/310AW ORP.GRF
3/9/20



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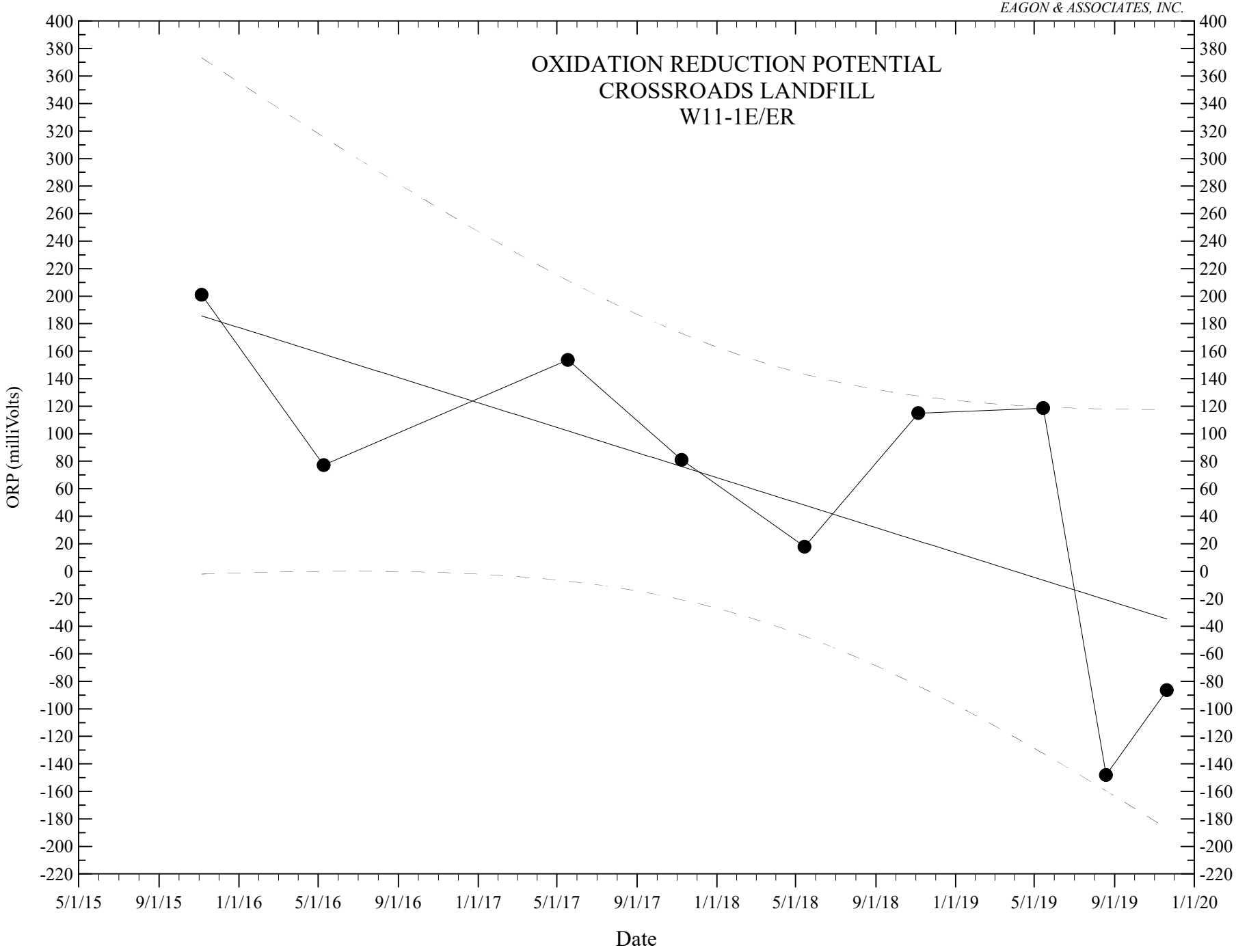
3/9/20



Crossroads/W11-1E_W111ER ORP.GRF
3/9/20

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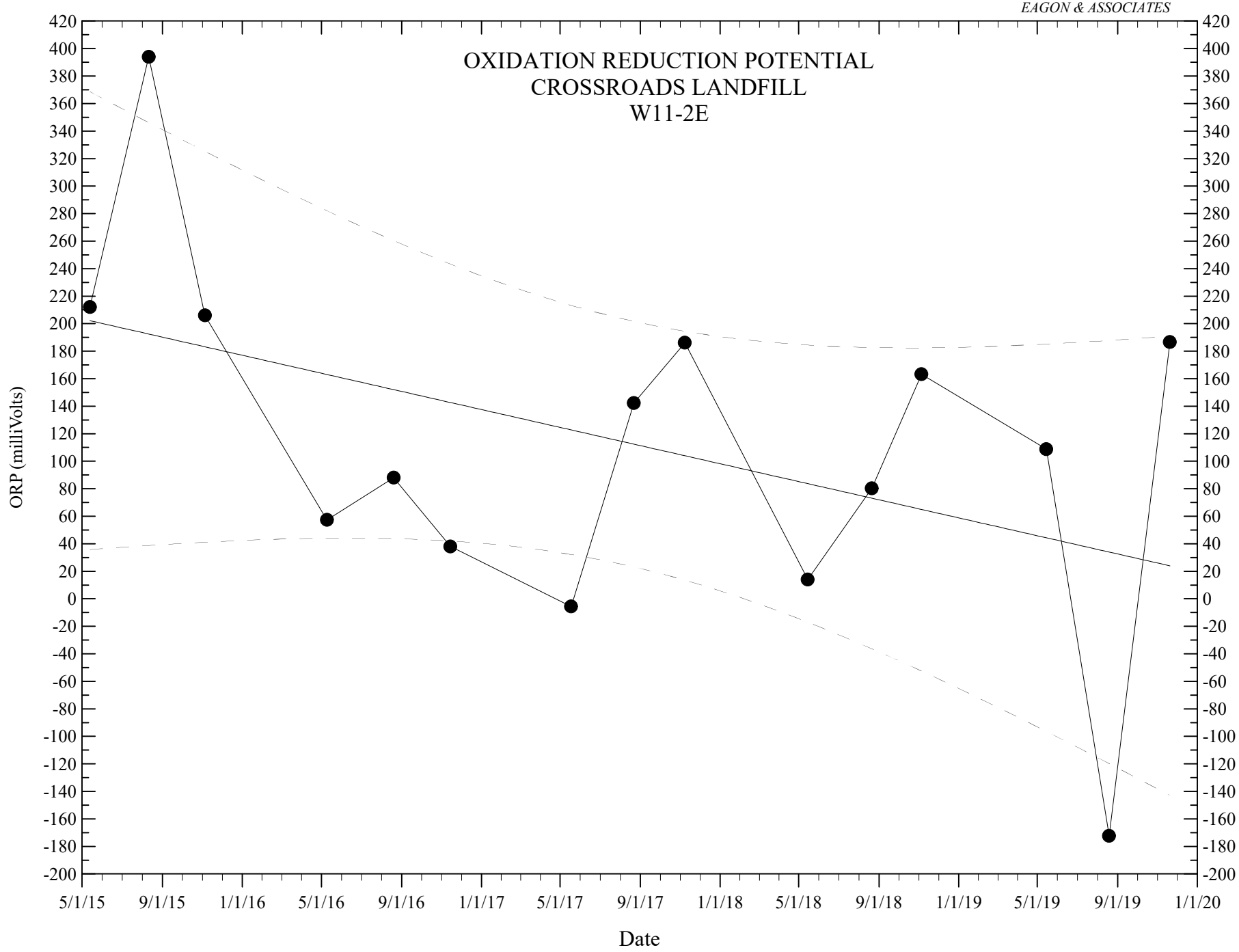

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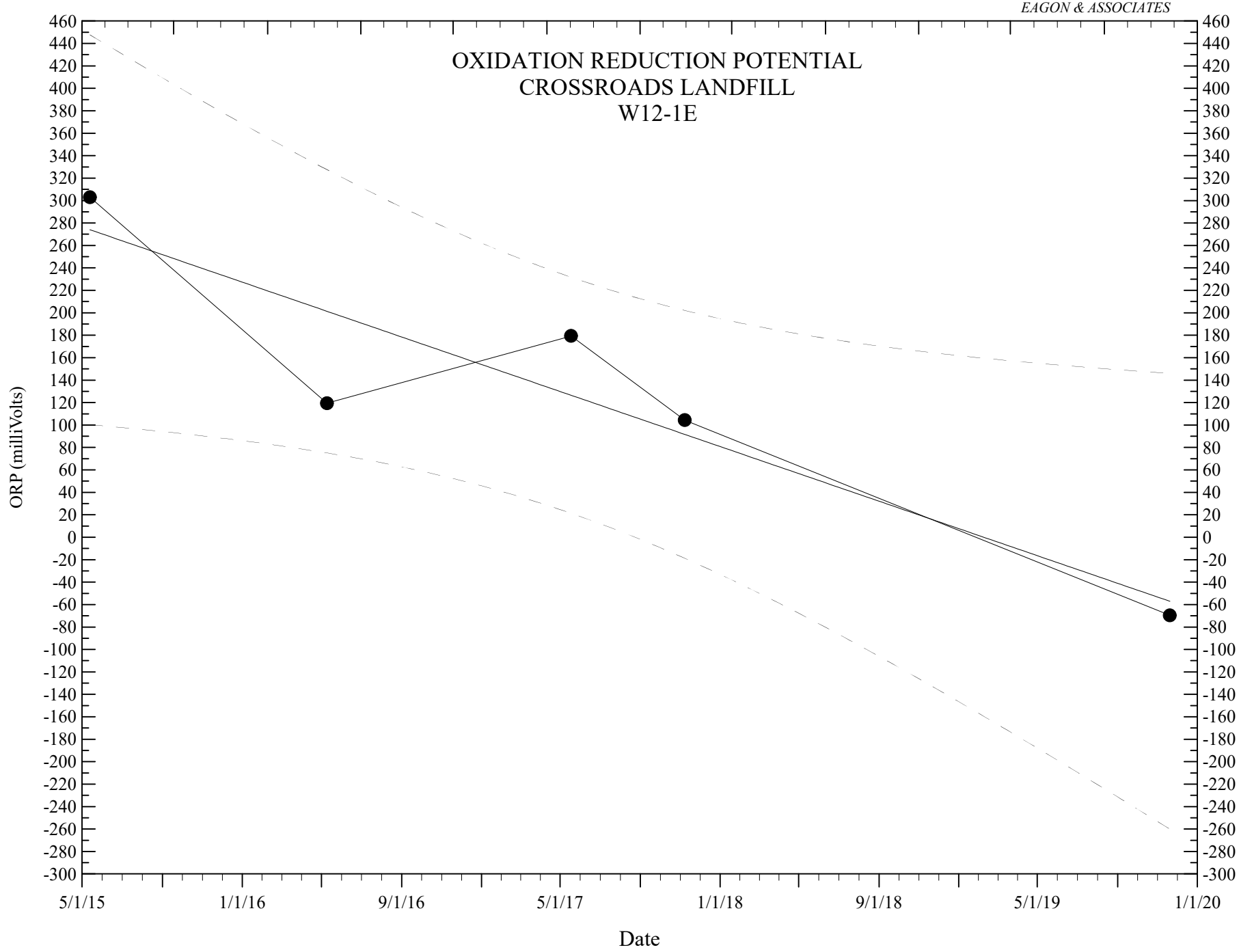
3/9/20



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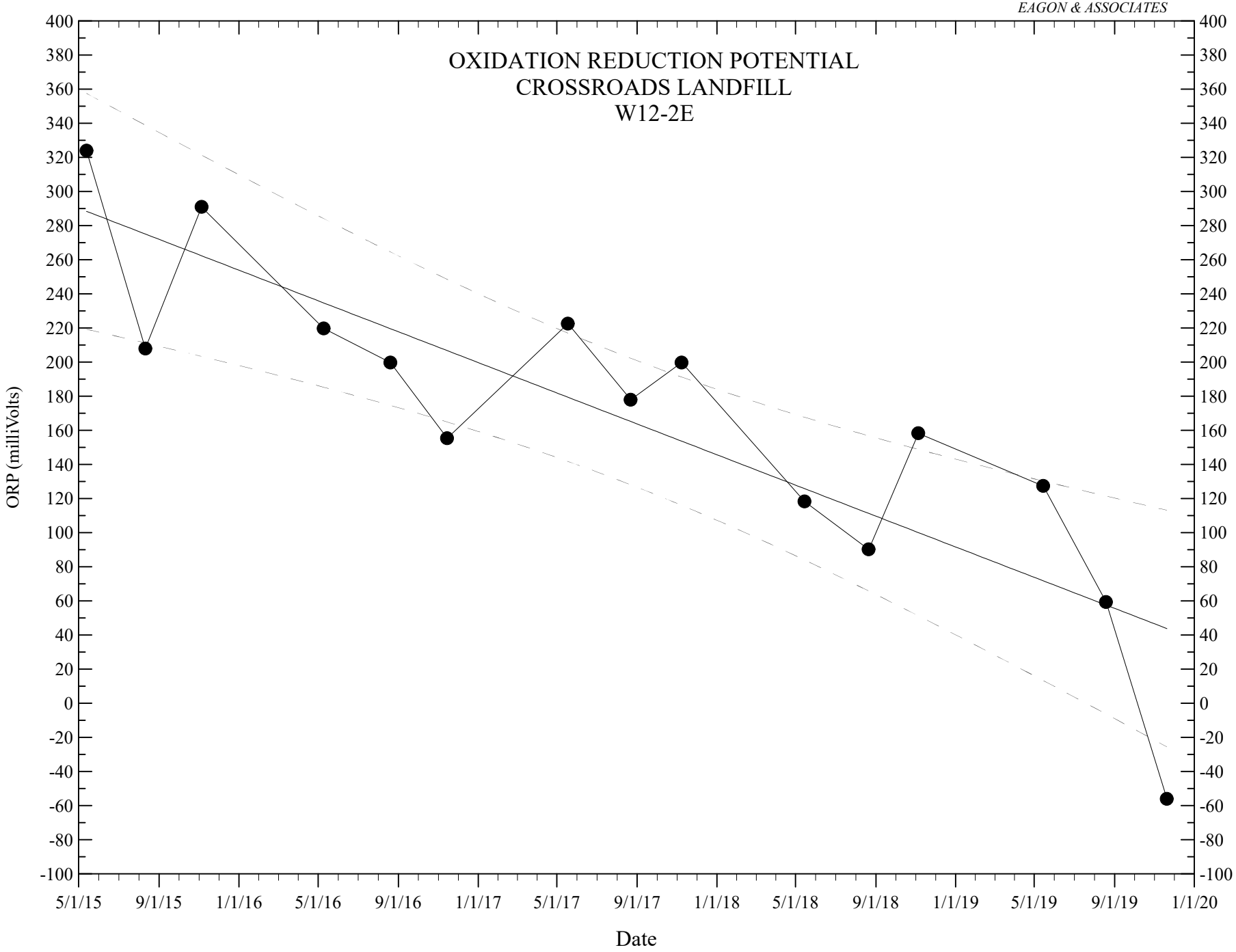
3/9/20

EAGON & ASSOCIATES



Crossroads/W12-2E ORP.GRF
3/9/20

Downgradient Wells – Phreatic Zone

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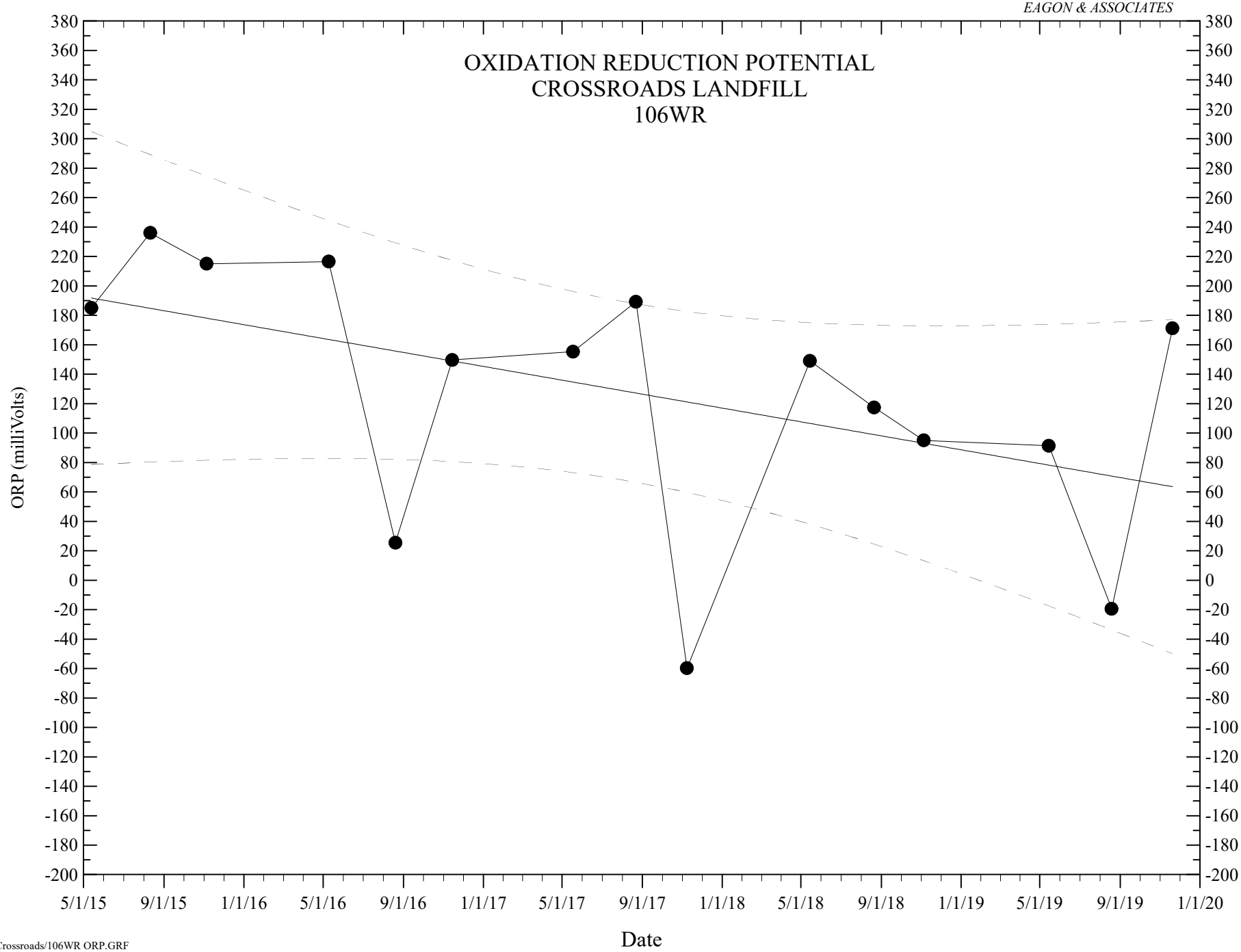
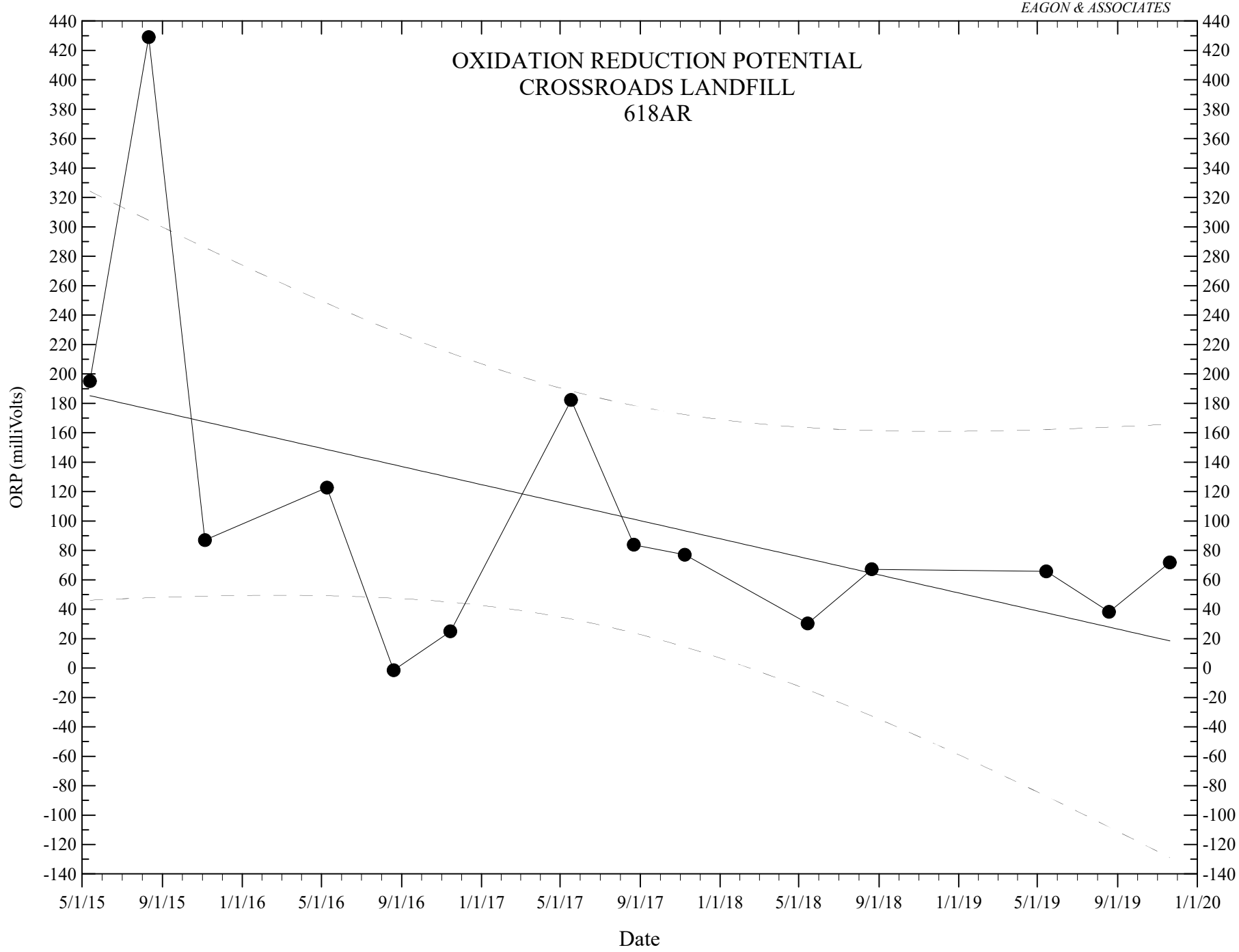
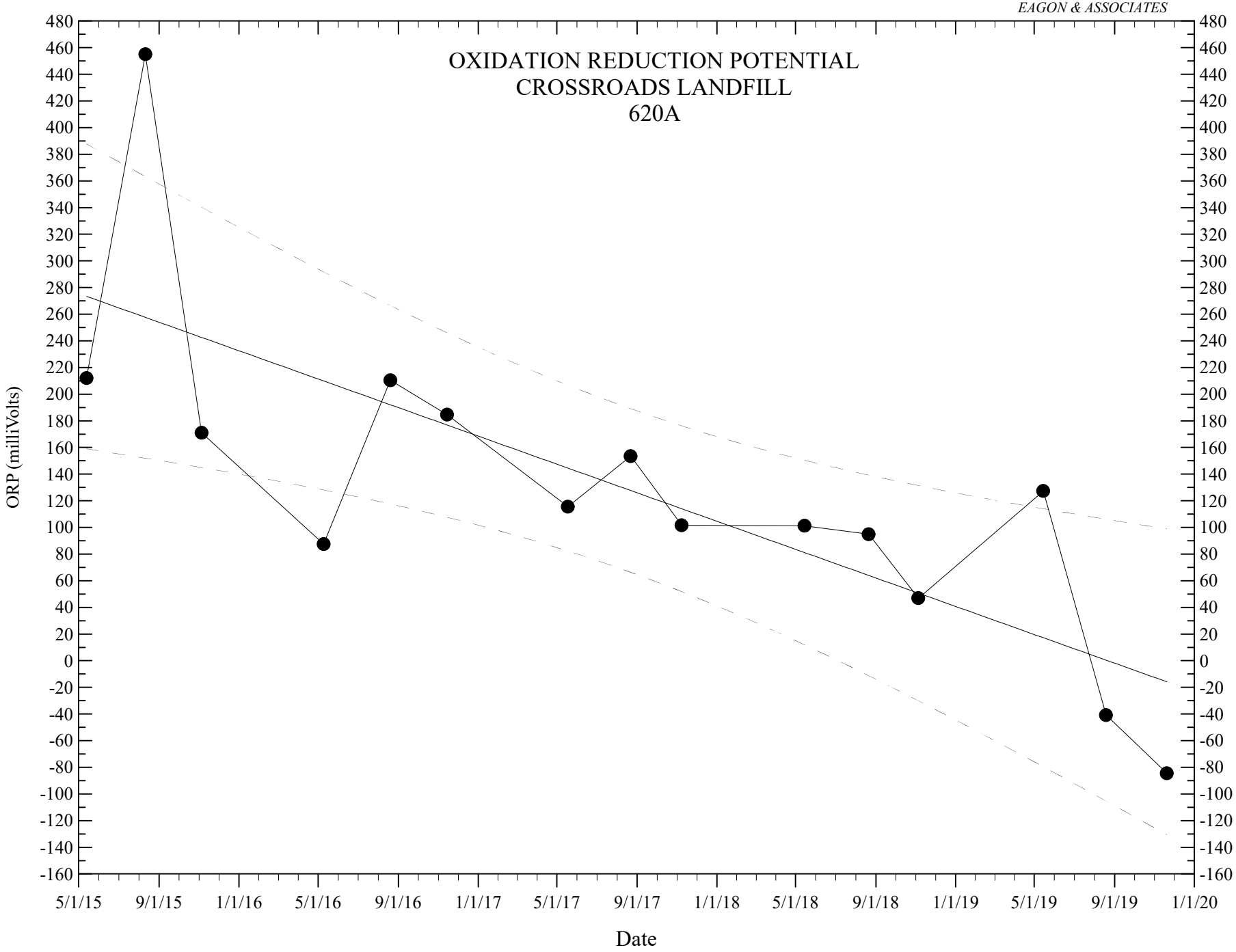


Crossroads/106WR ORP.GRF
3/9/20



Crossroads/618AR ORP.GRF
3/9/20

EAGON & ASSOCIATES



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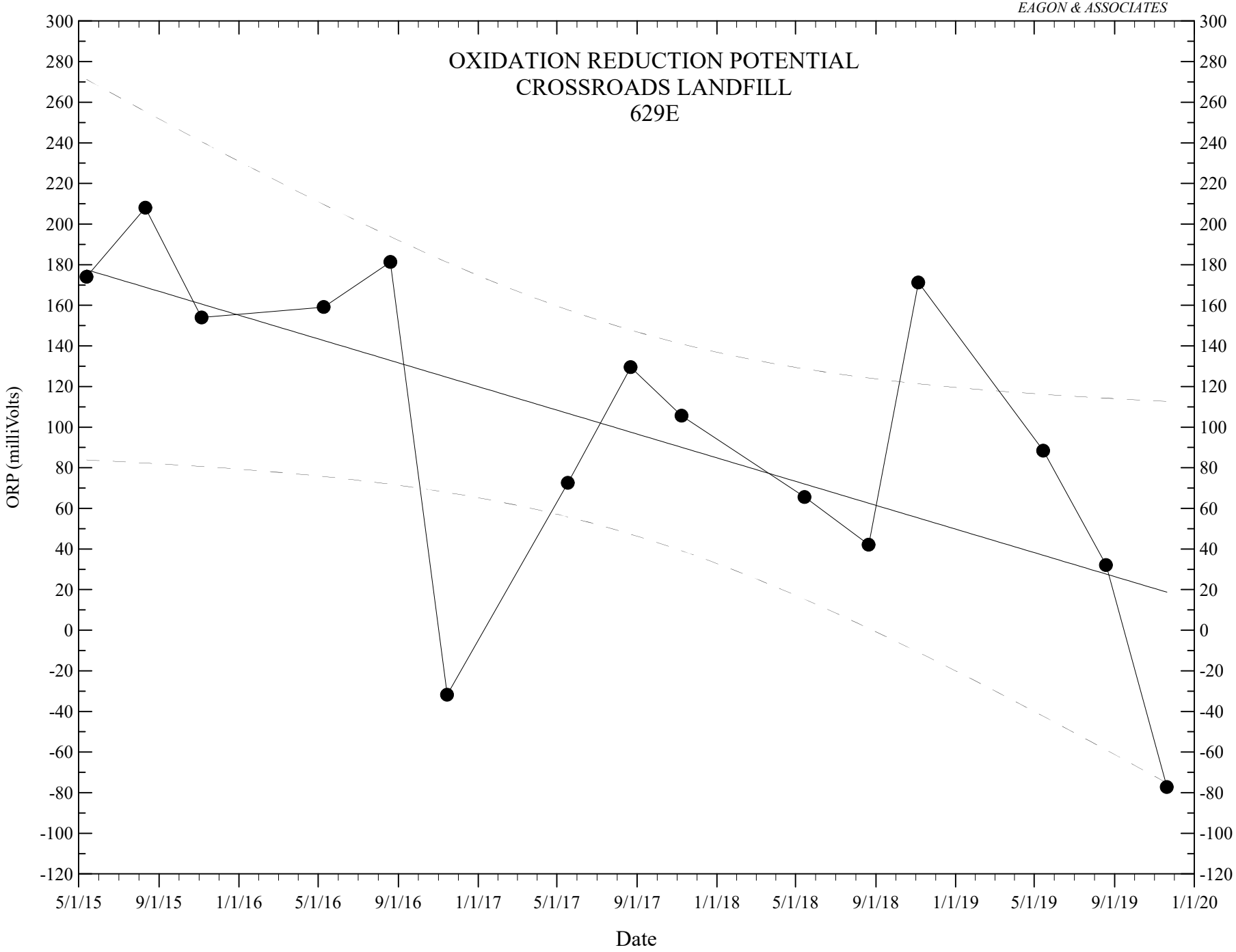
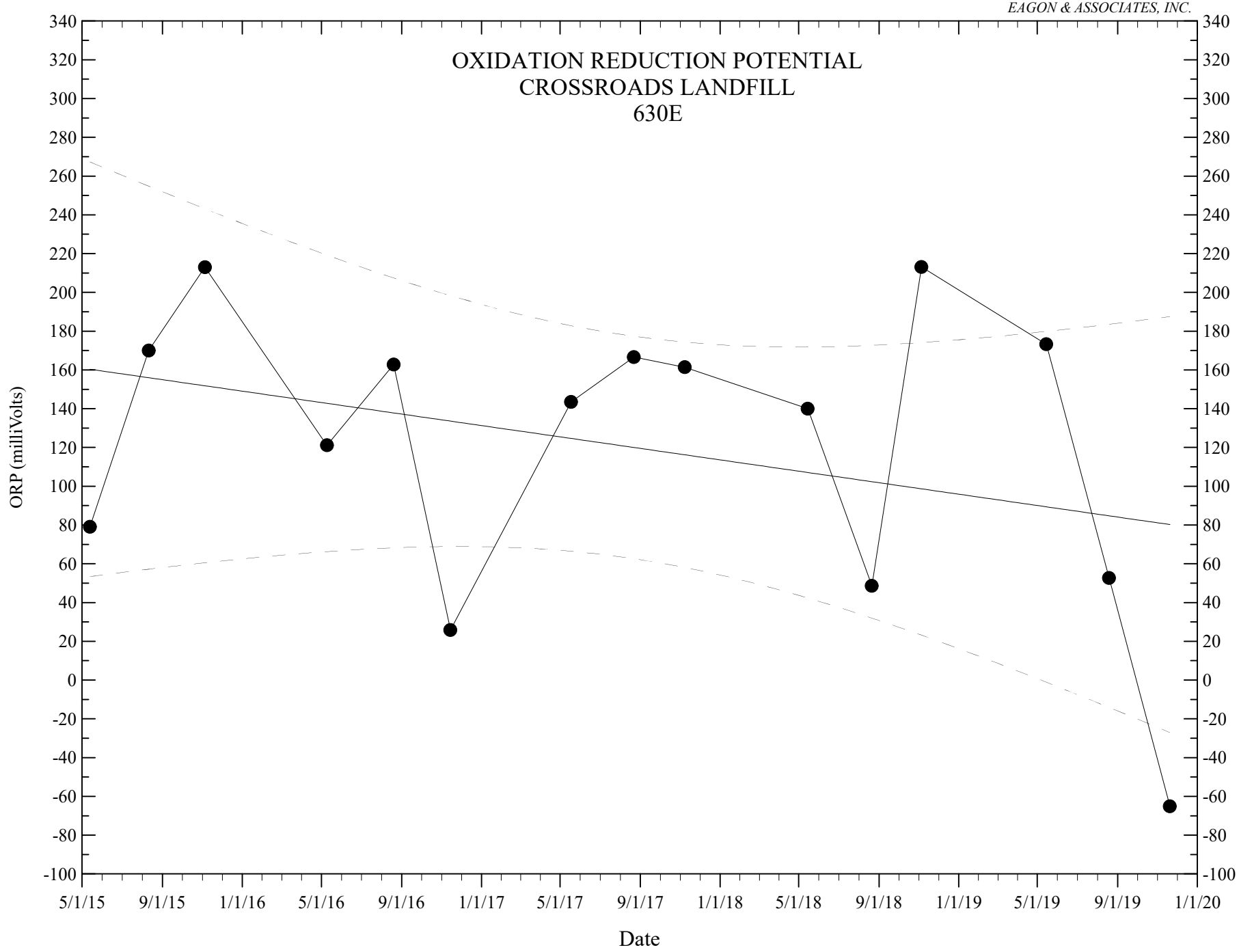
3/9/20



Crossroads/629E ORP.GRF
3/9/20



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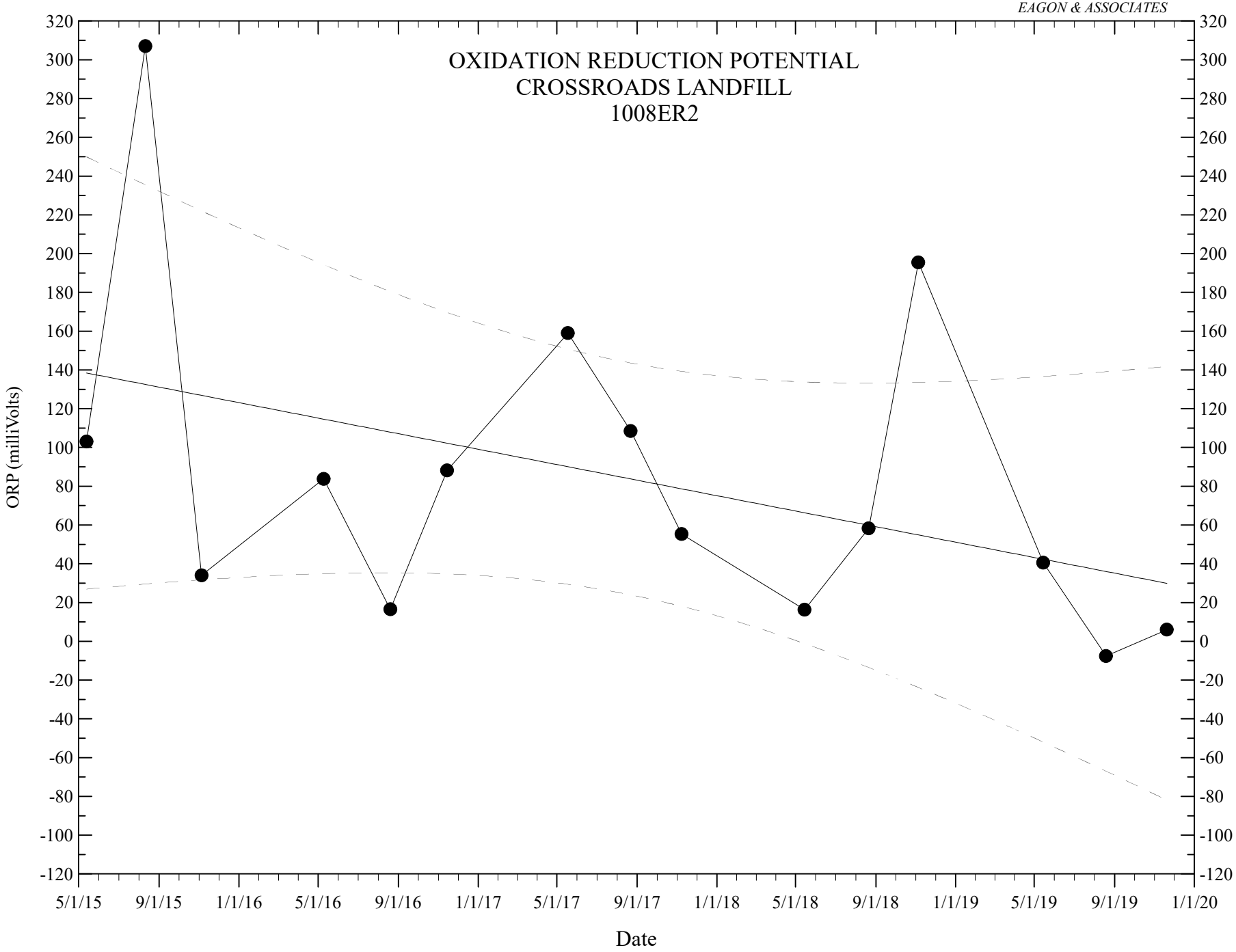
3/9/20



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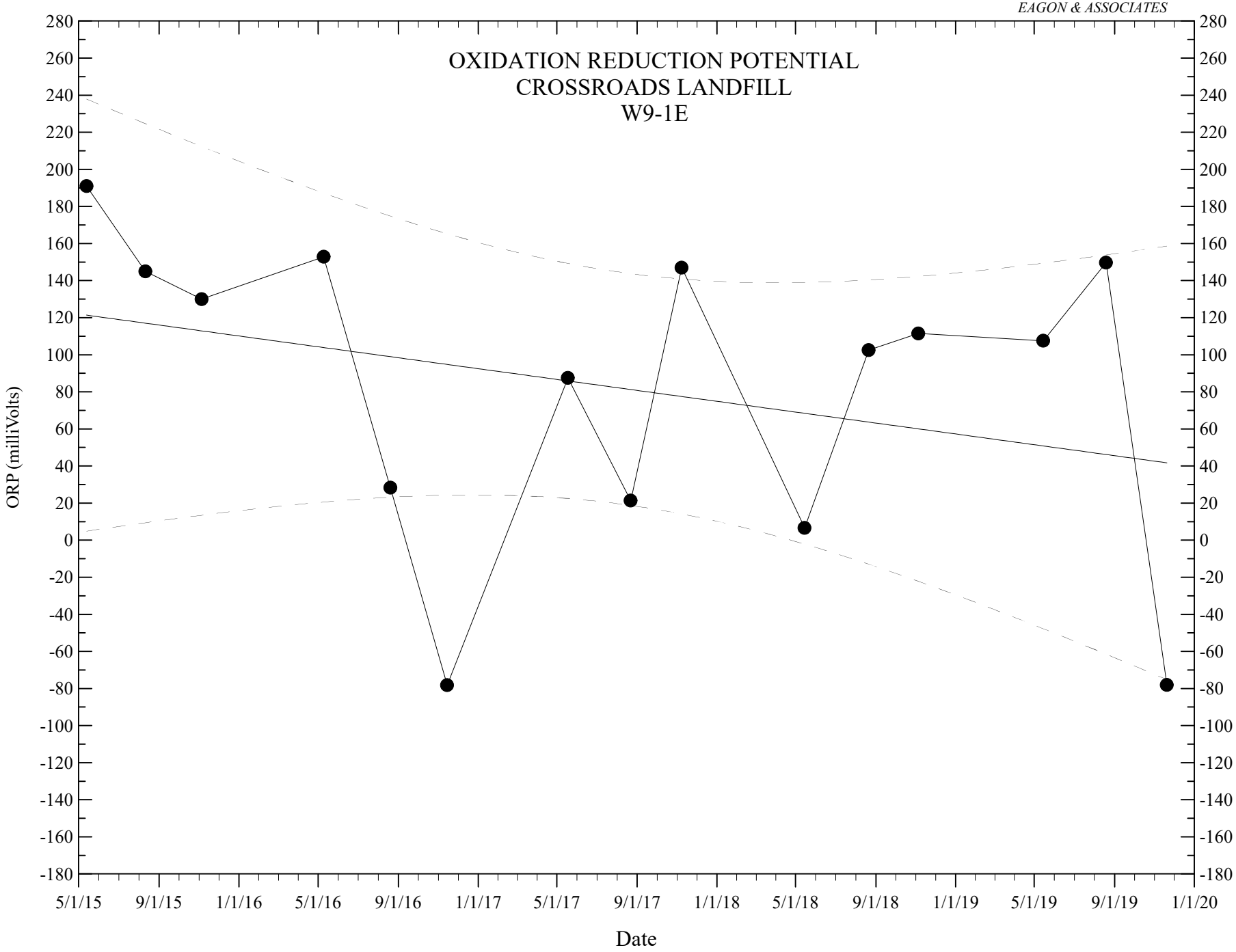
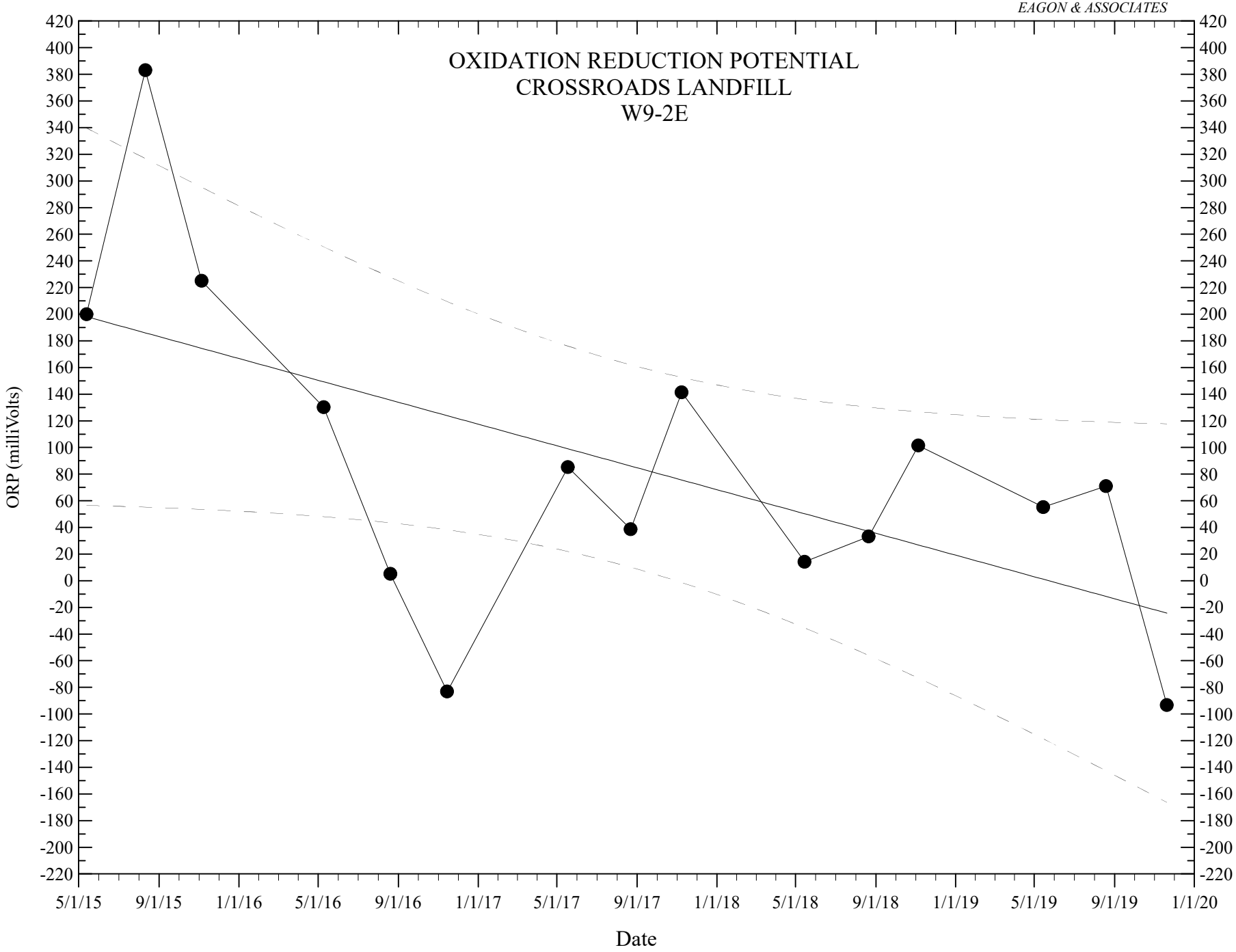
3/9/20

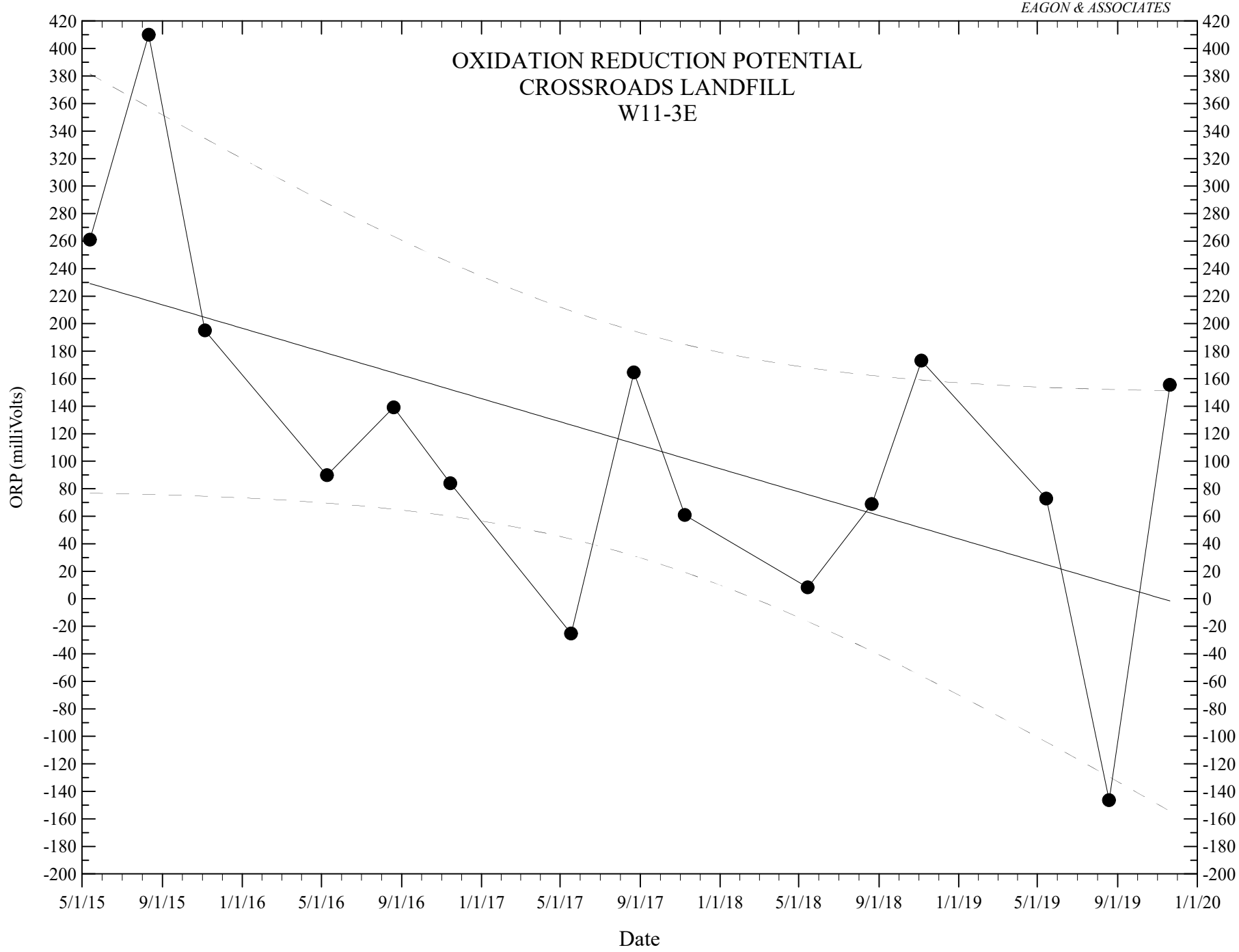


Crossroads/W9-1E ORP.GRF
3/9/20

EAGON & ASSOCIATES



Crossroads/W9-2E ORP.GRF
3/9/20



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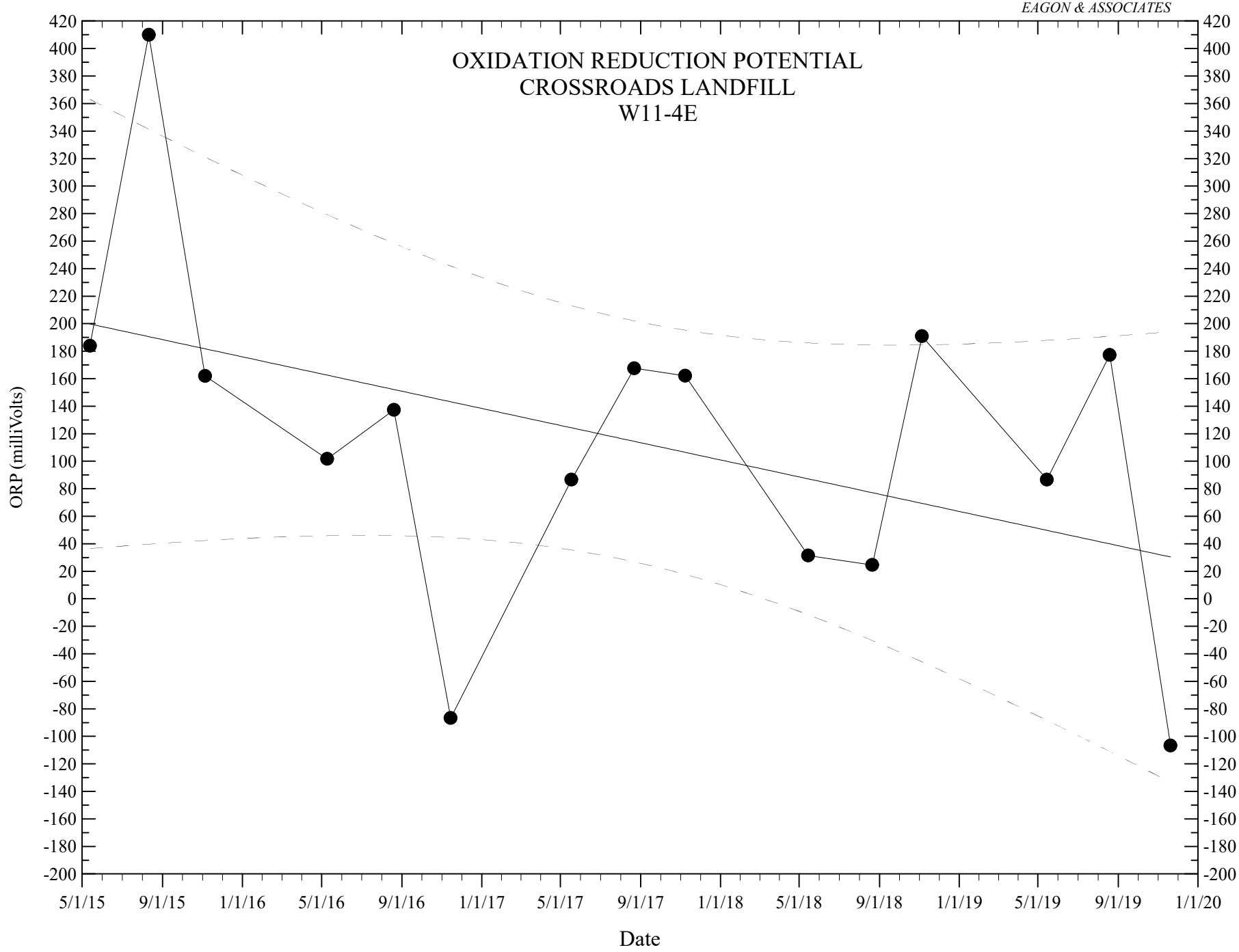
EAGON & ASSOCIATES



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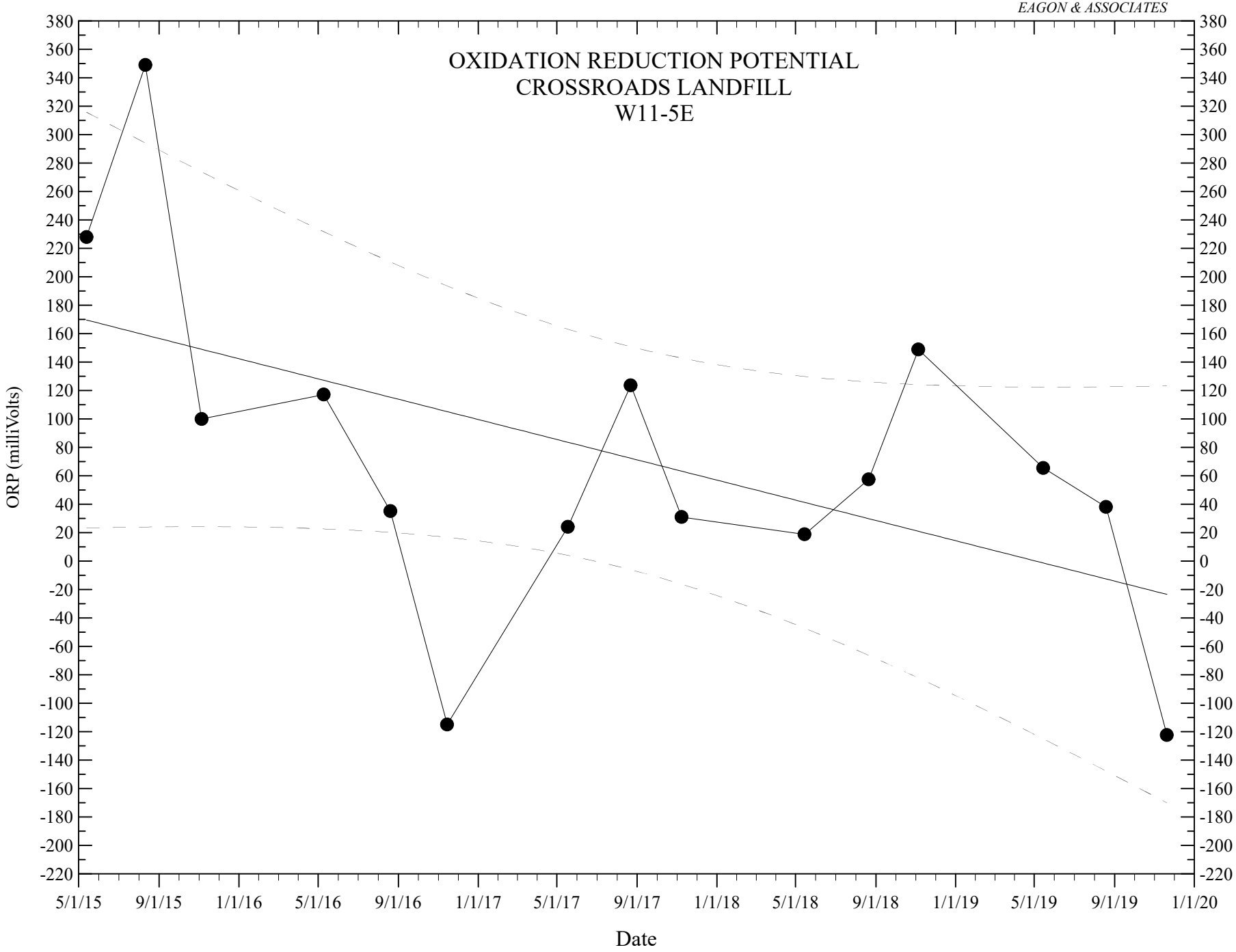
3/9/20



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3/9/20

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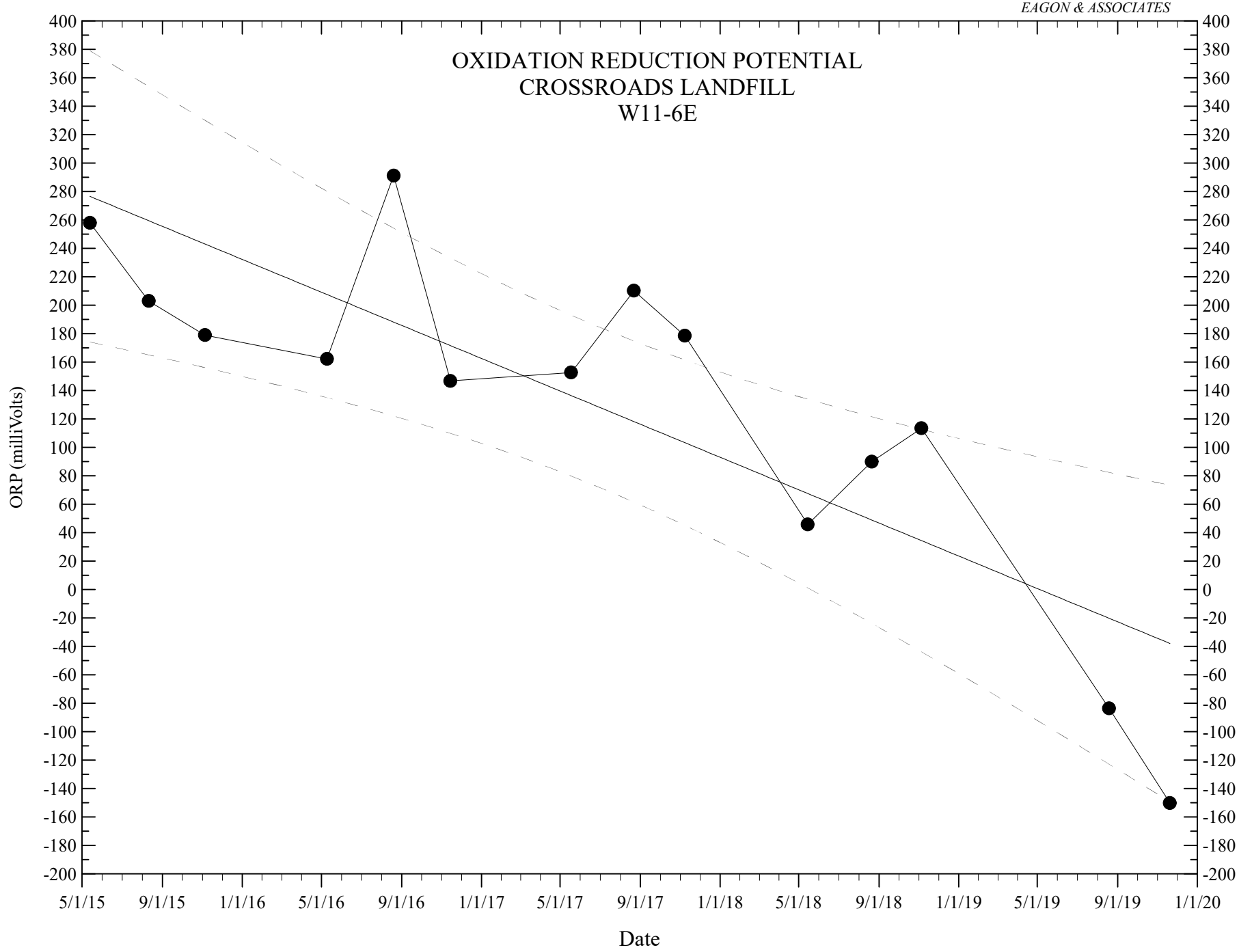

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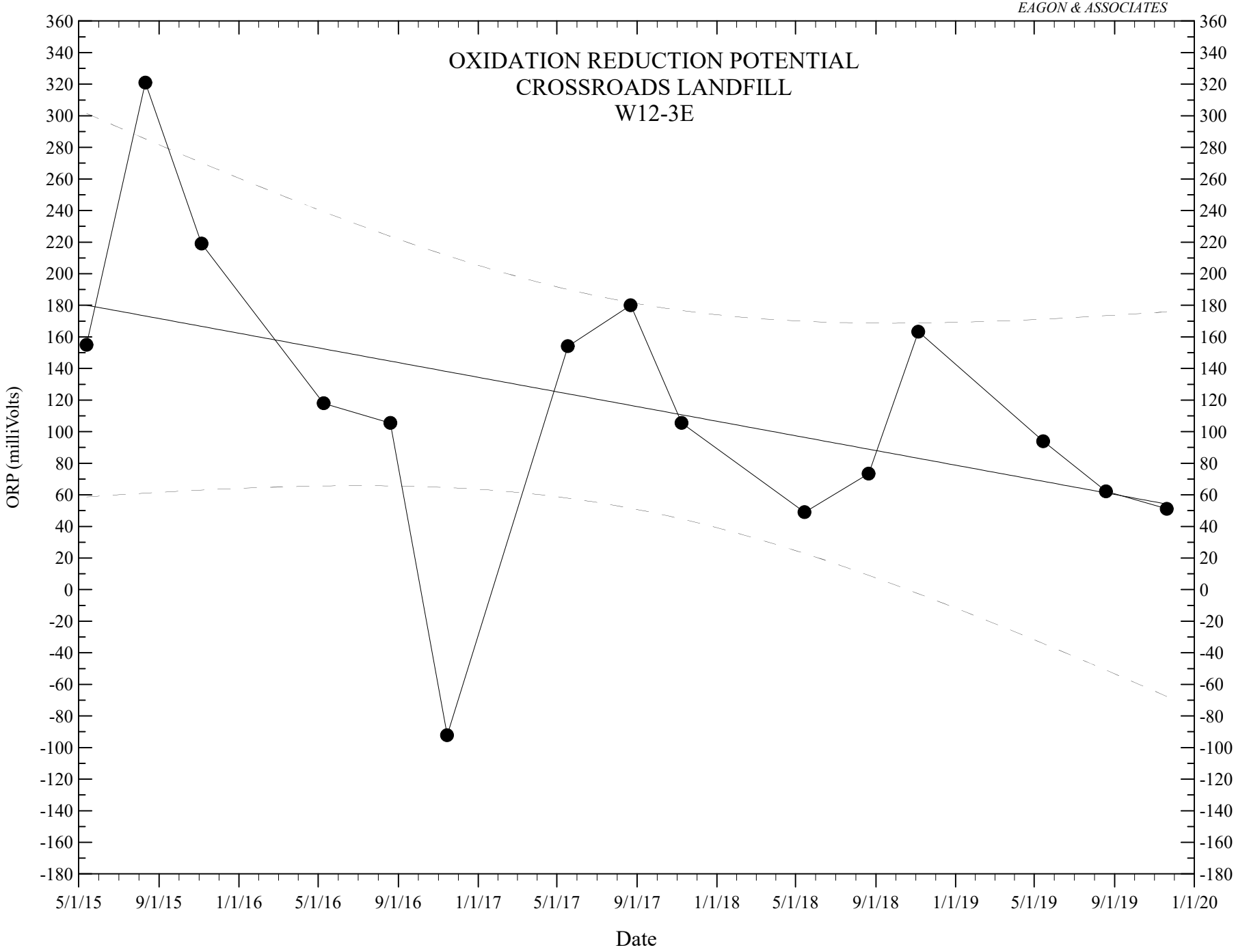

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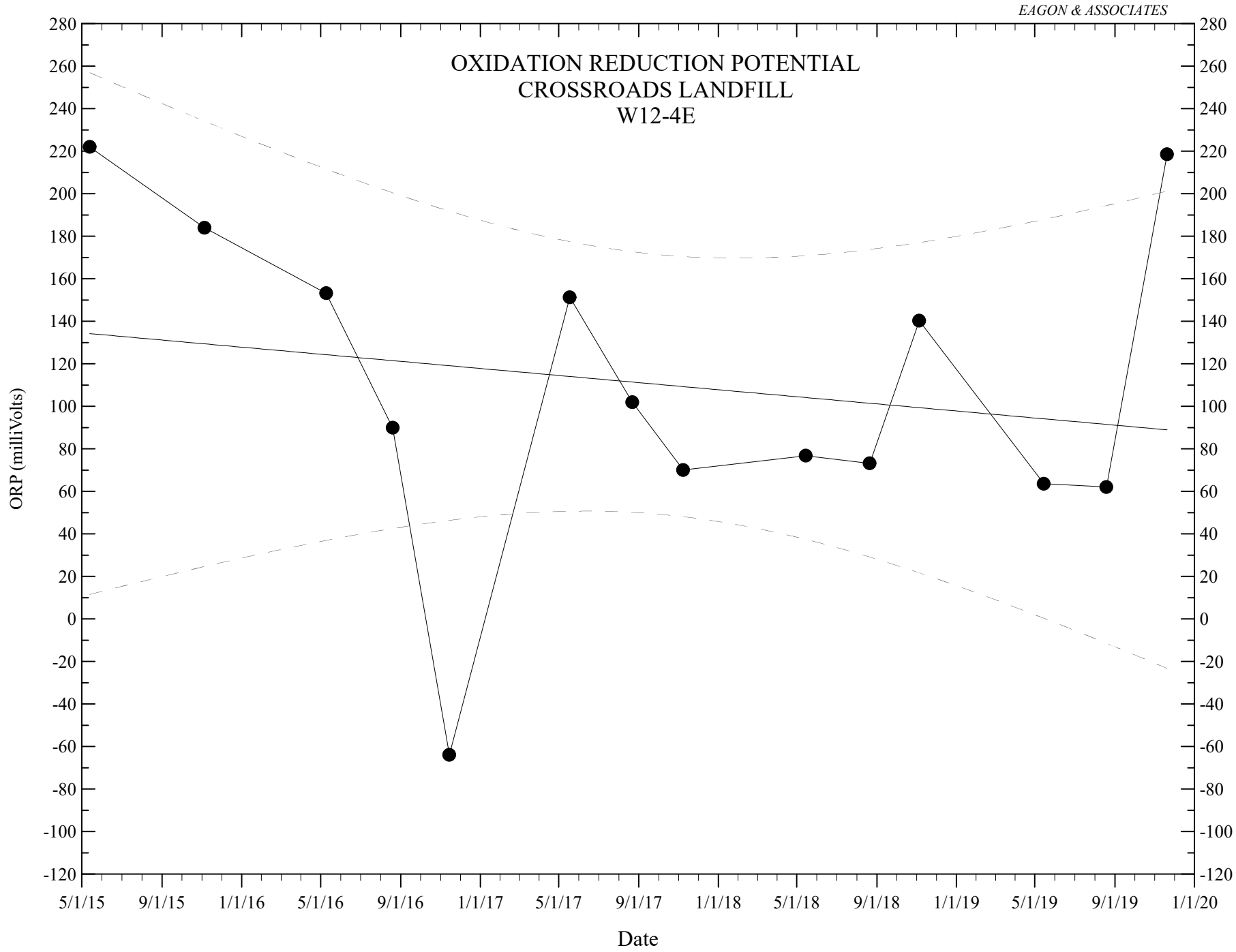

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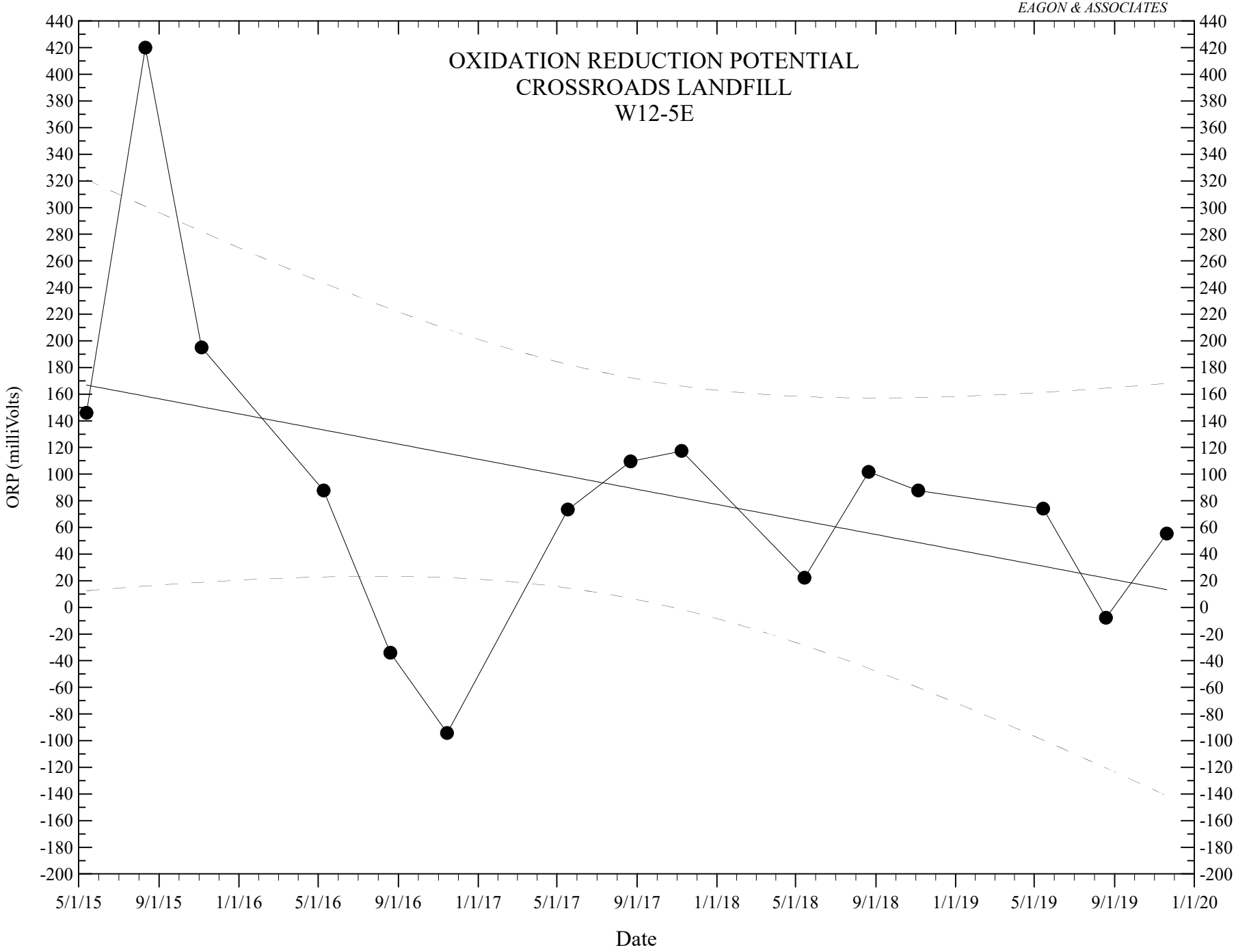
EAGON & ASSOCIATES



Crossroads/W12-5E ORP.GRF
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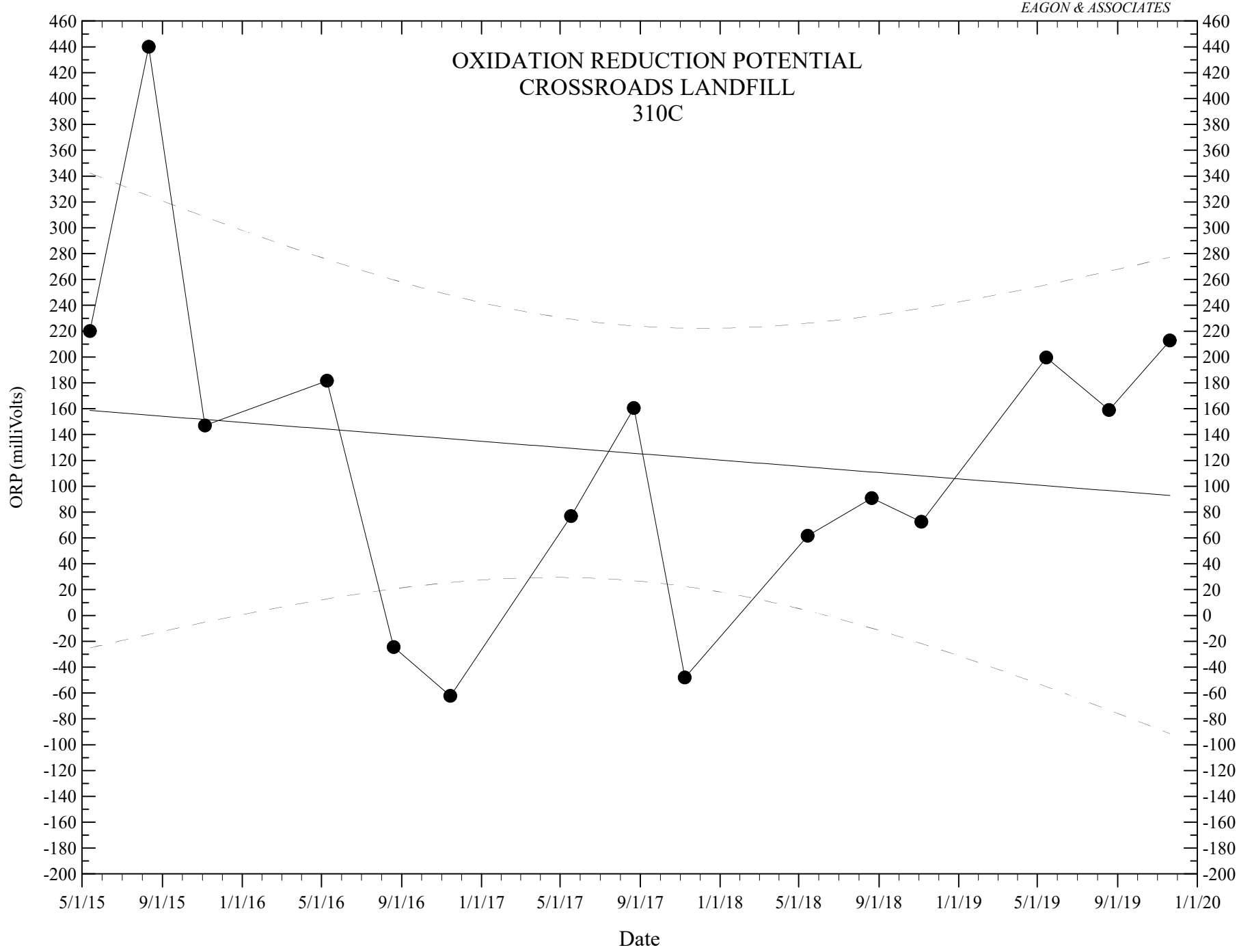
Upgradient Wells – Till Zone

EAGON & ASSOCIATES



Crossroads/310C ORP.GRF
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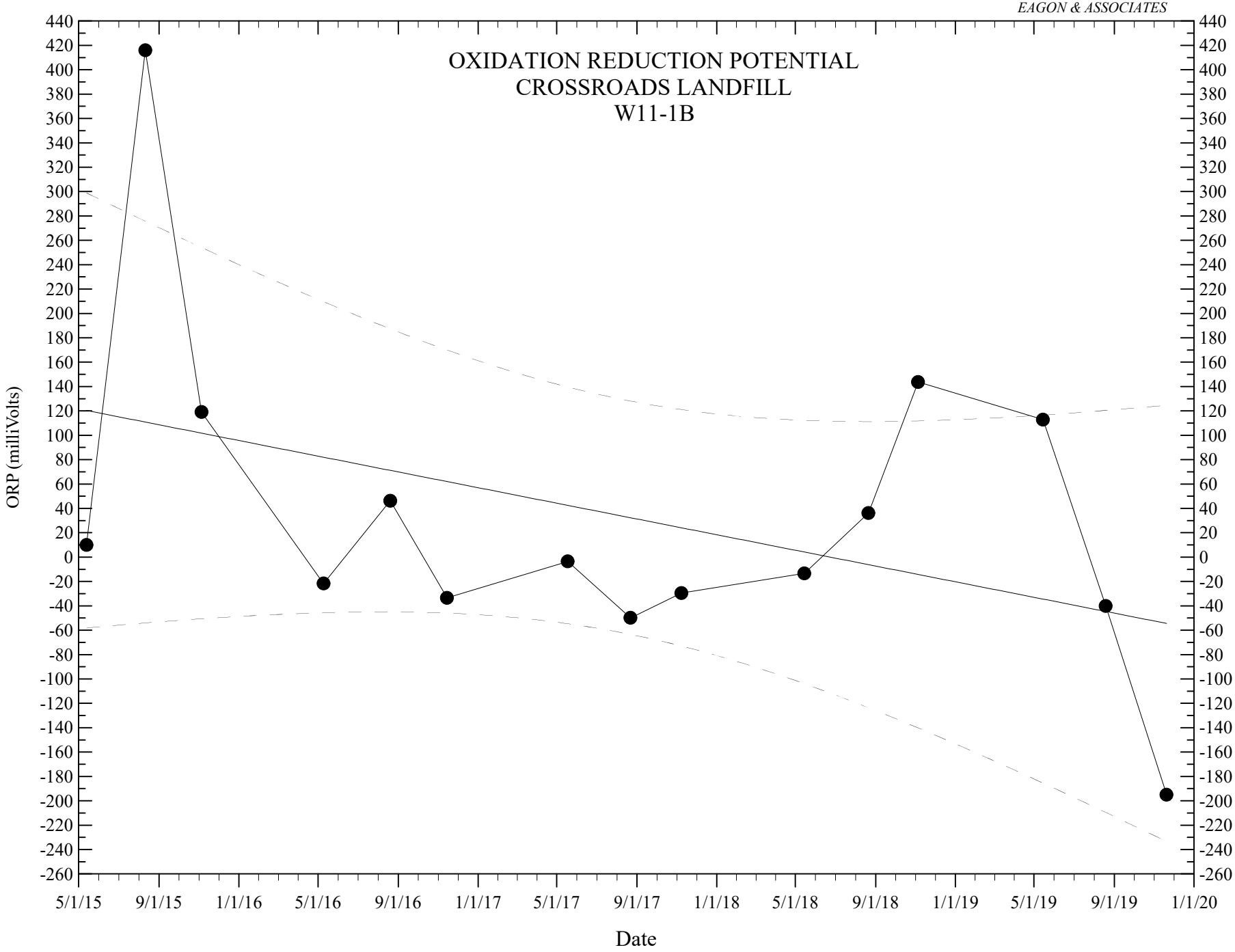
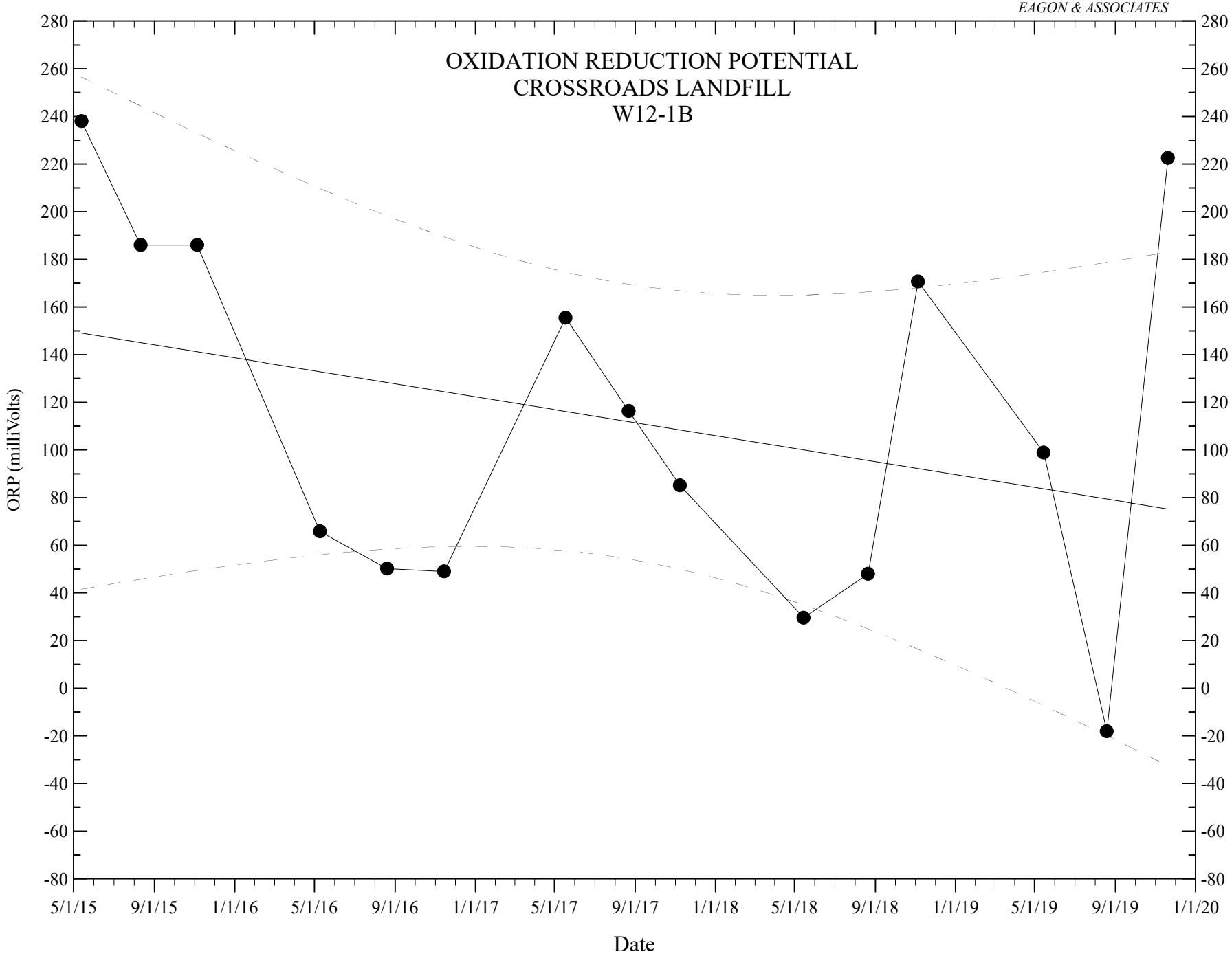
EAGON & ASSOCIATES



Crossroads/W11-1B ORP.GRF
3/9/20



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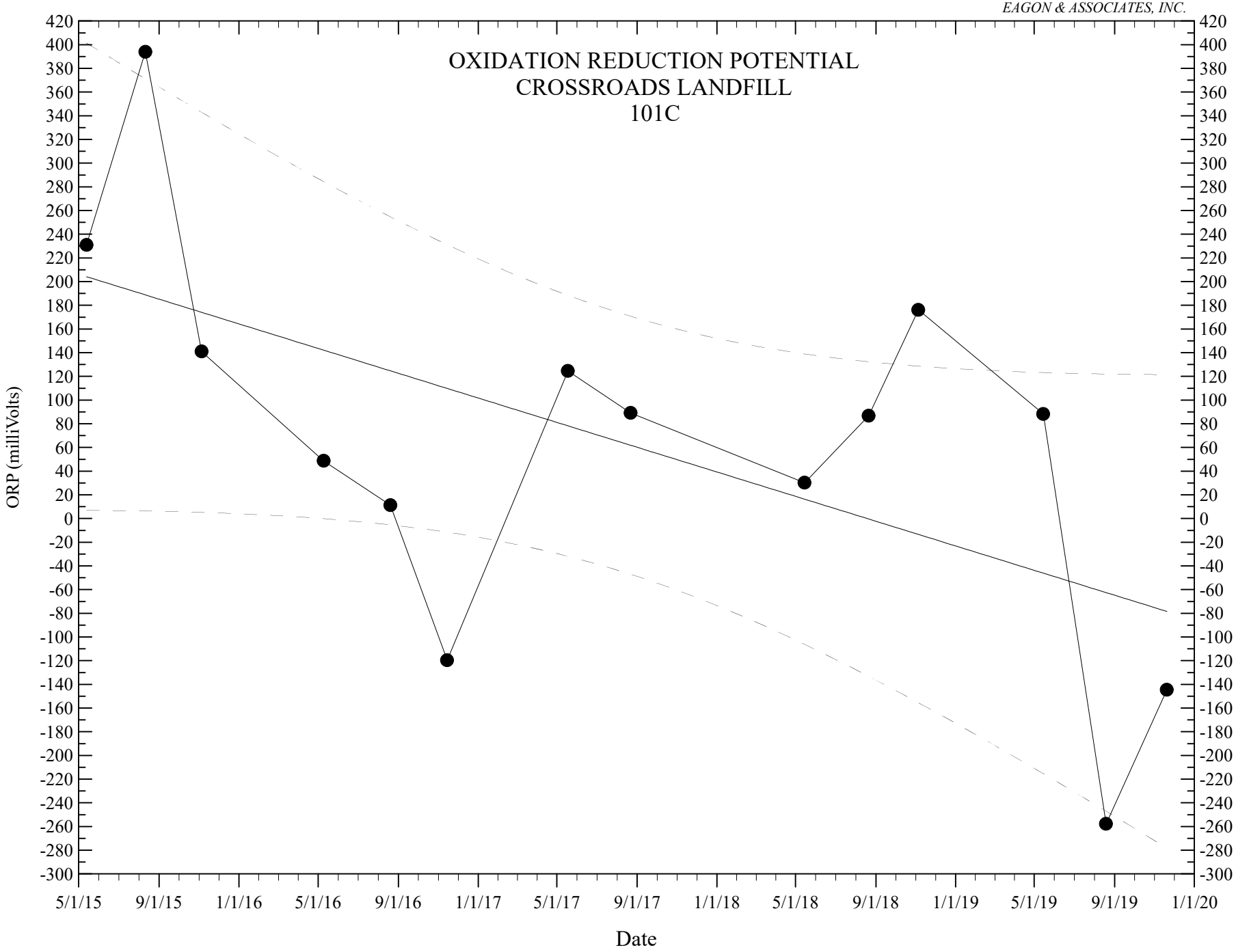
Downgradient Wells – Till Zone



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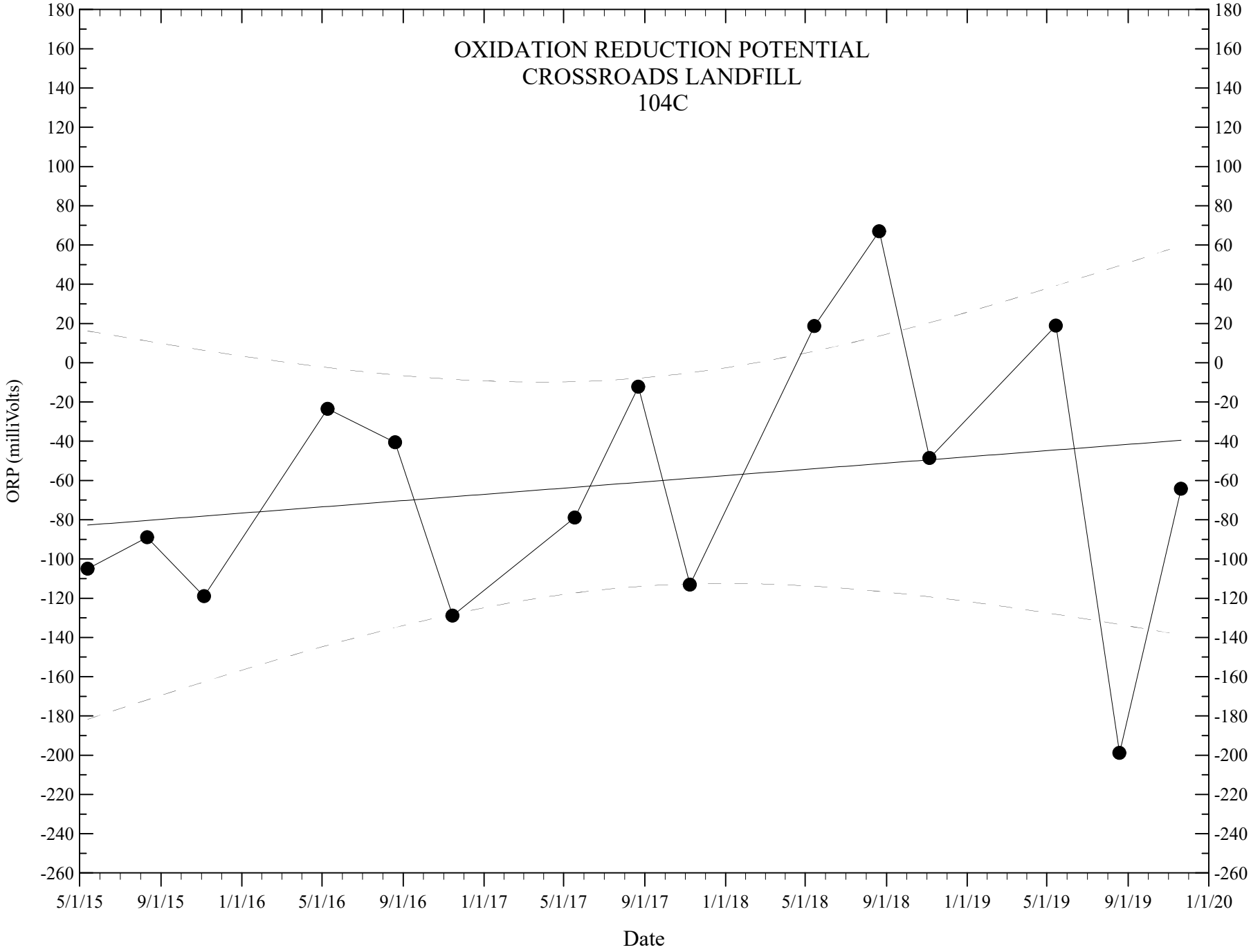

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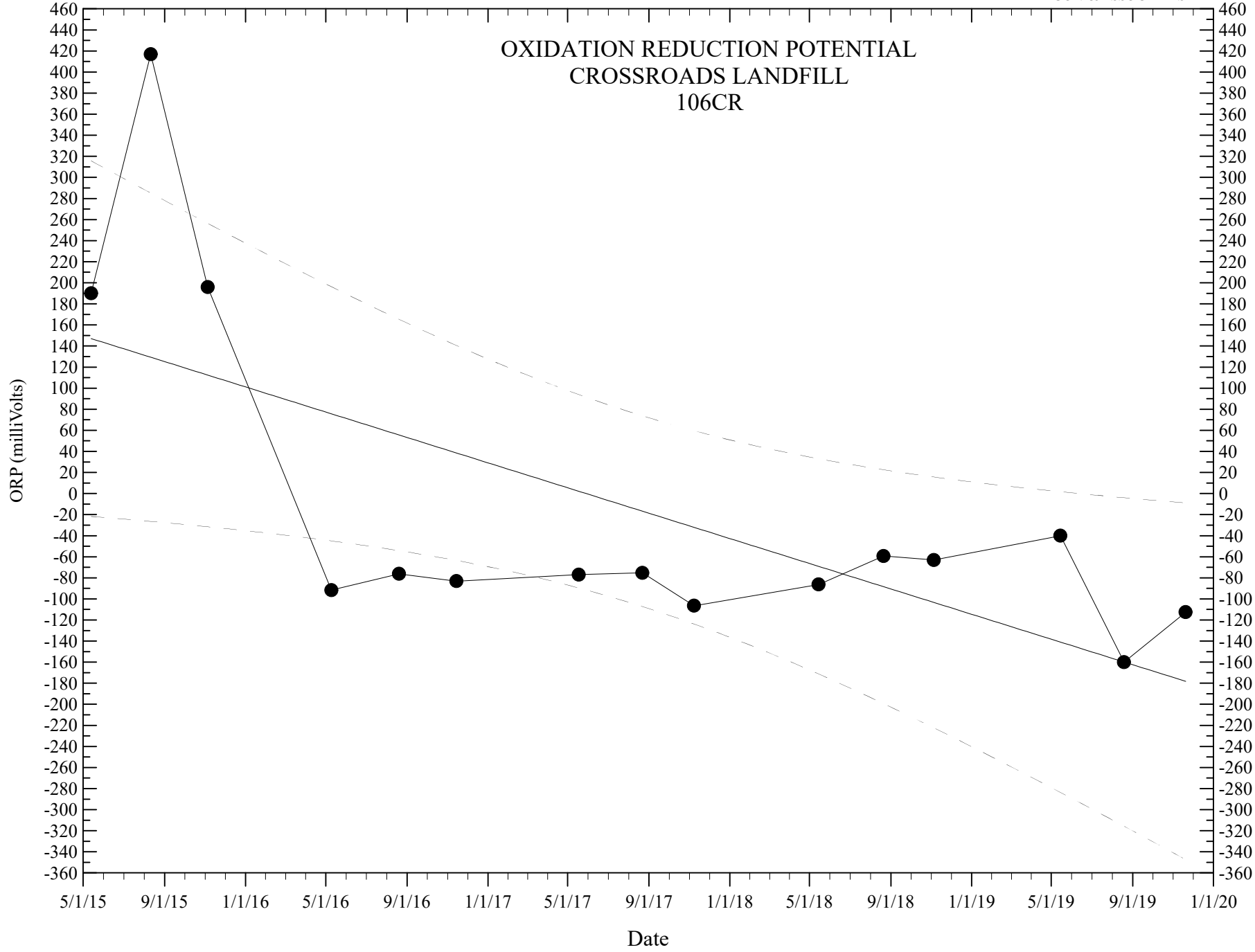
3/9/20

EAGON & ASSOCIATES



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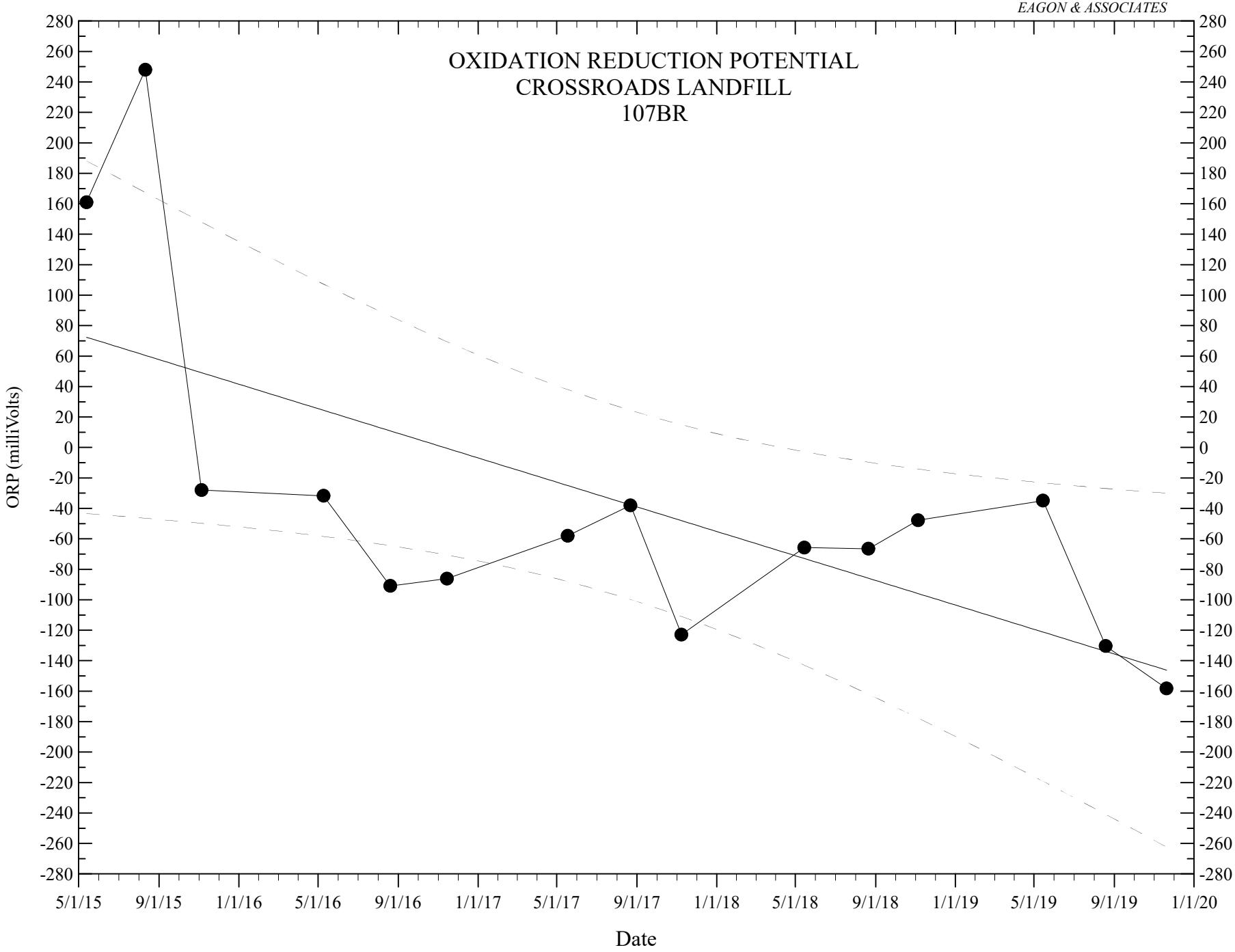

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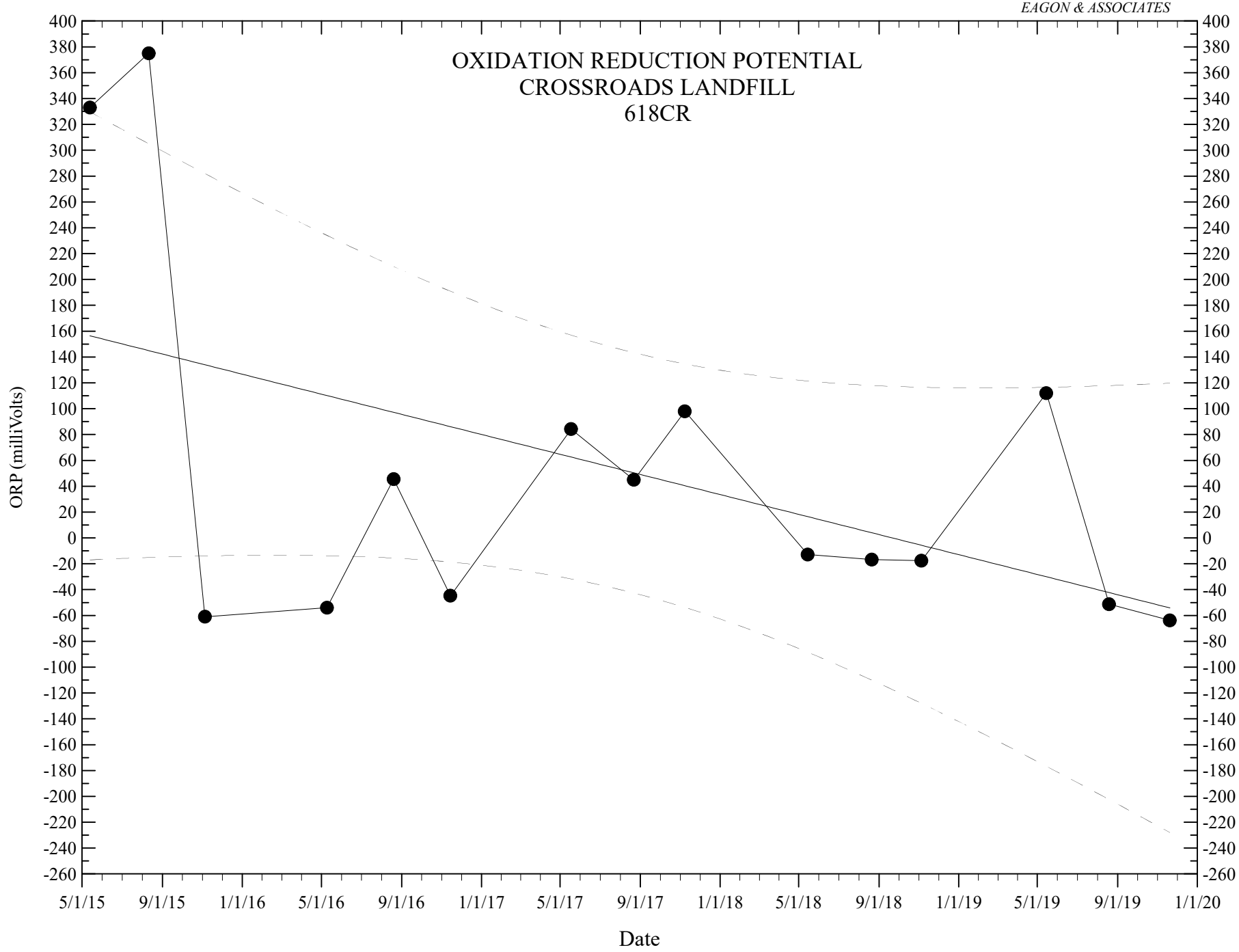

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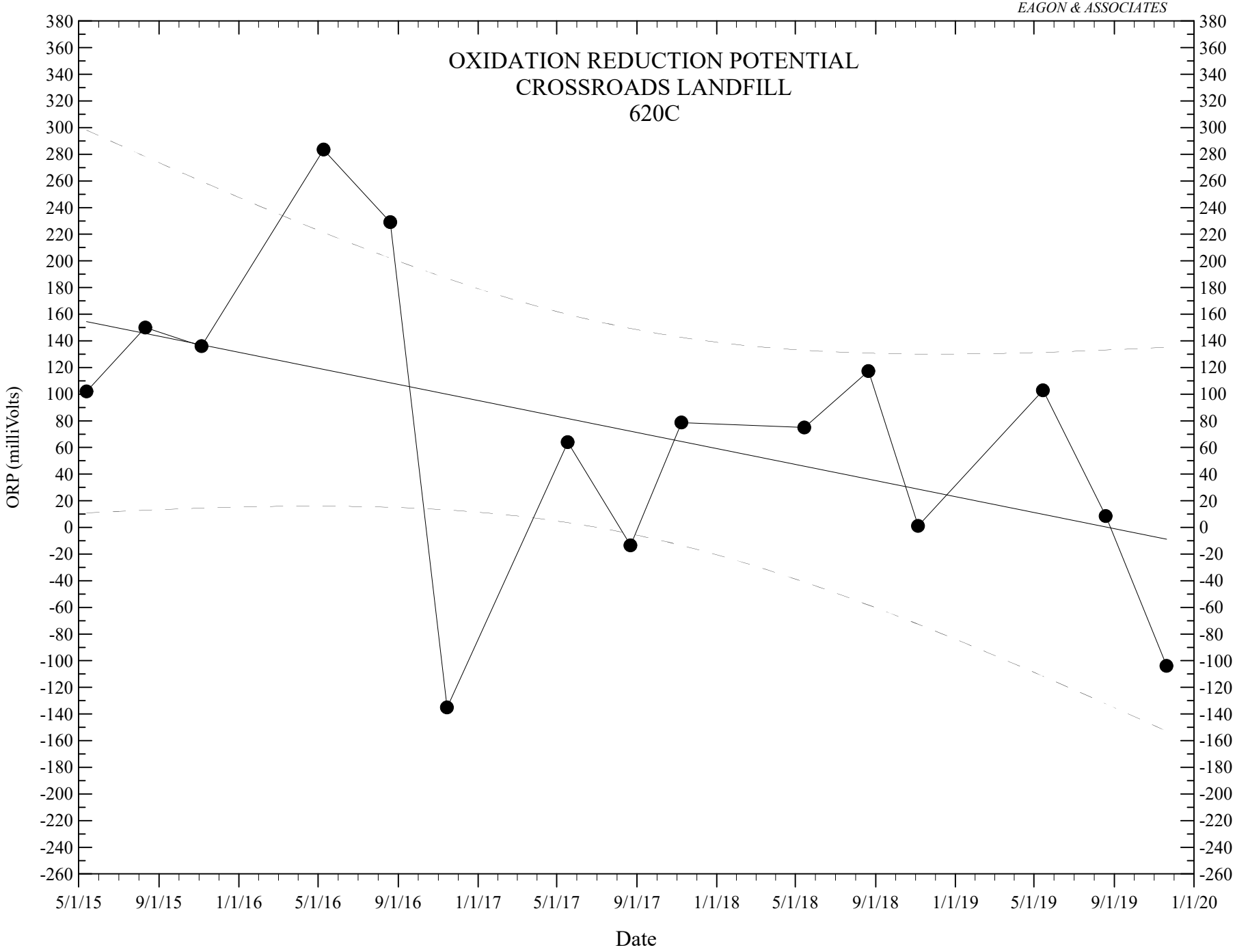

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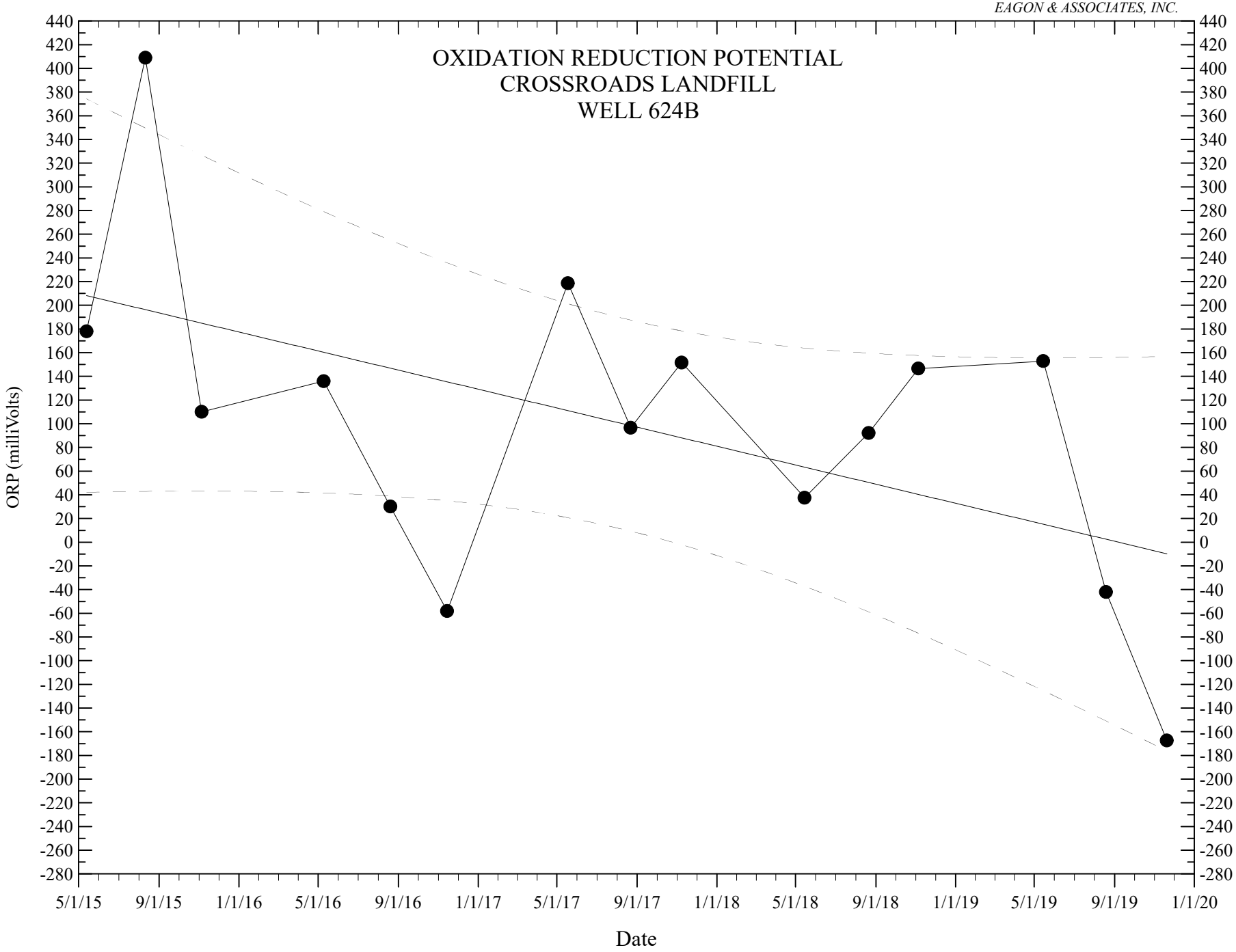

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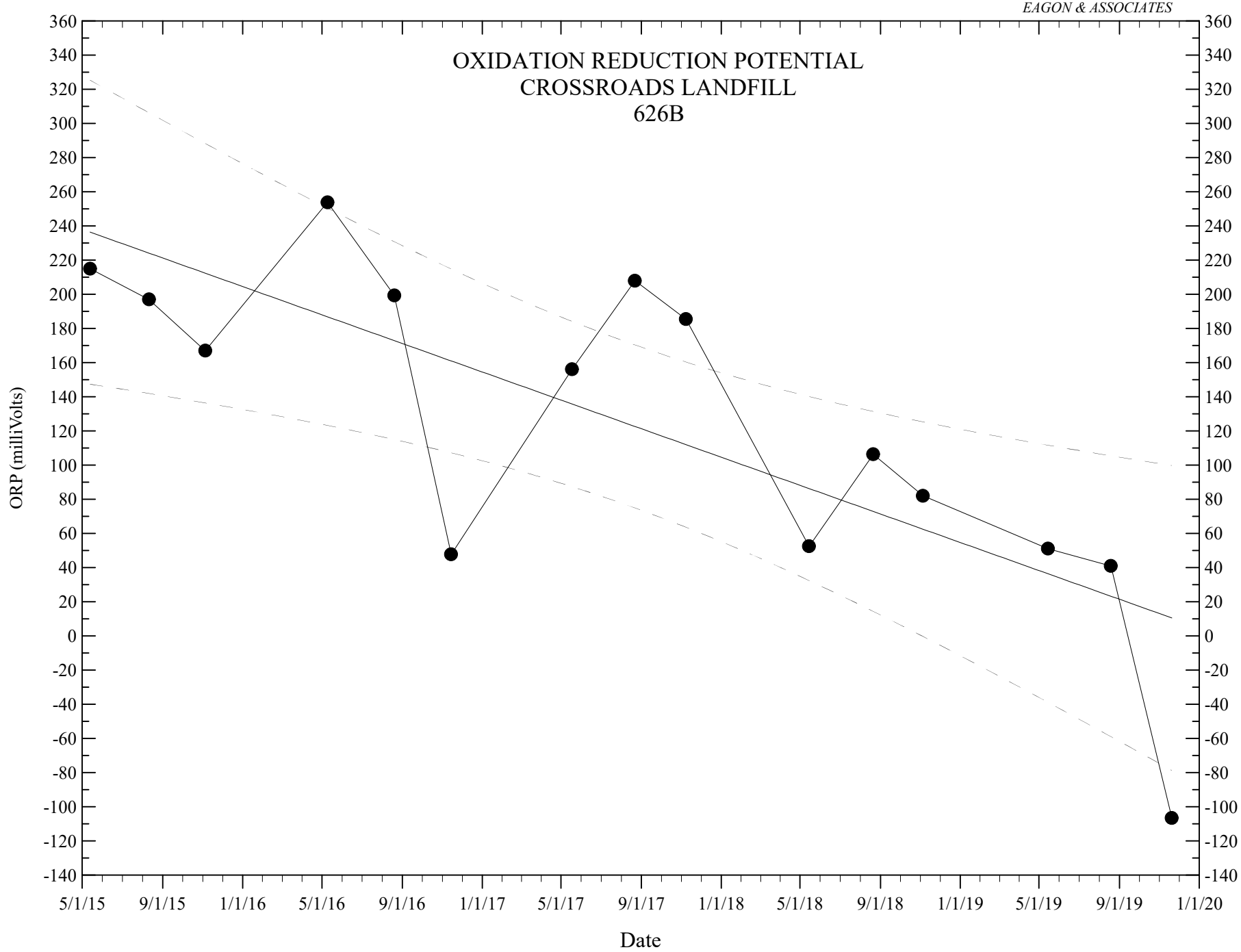

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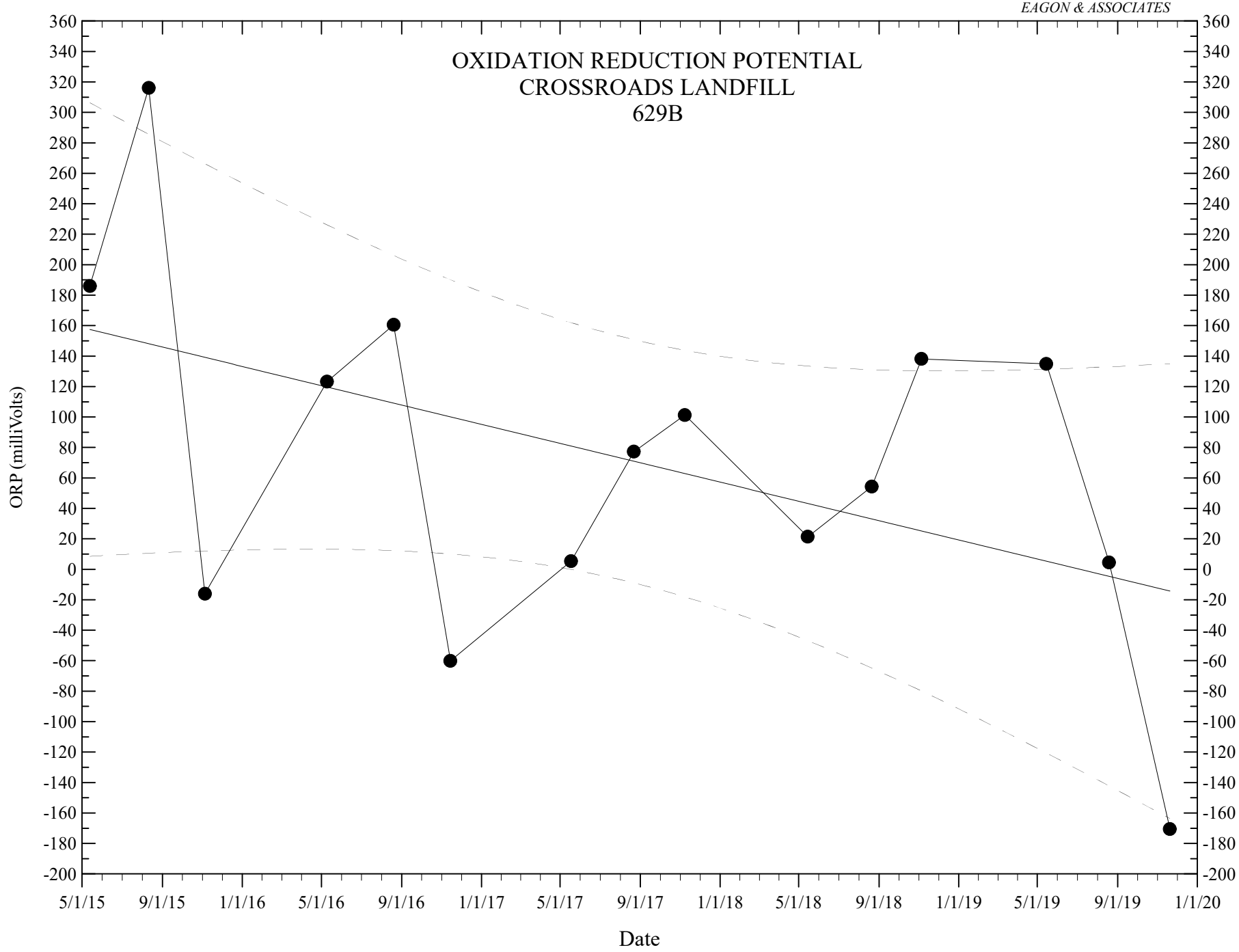

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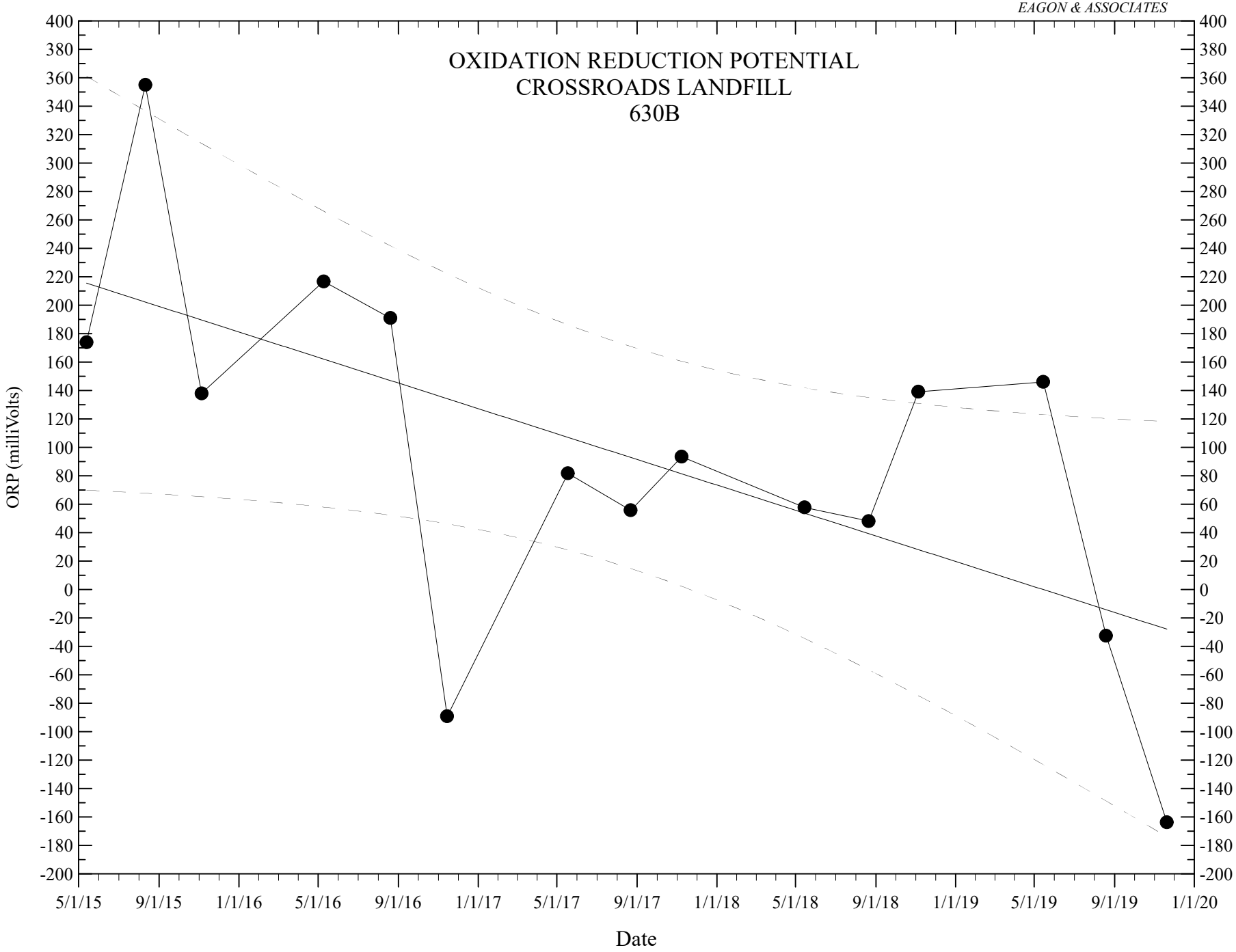

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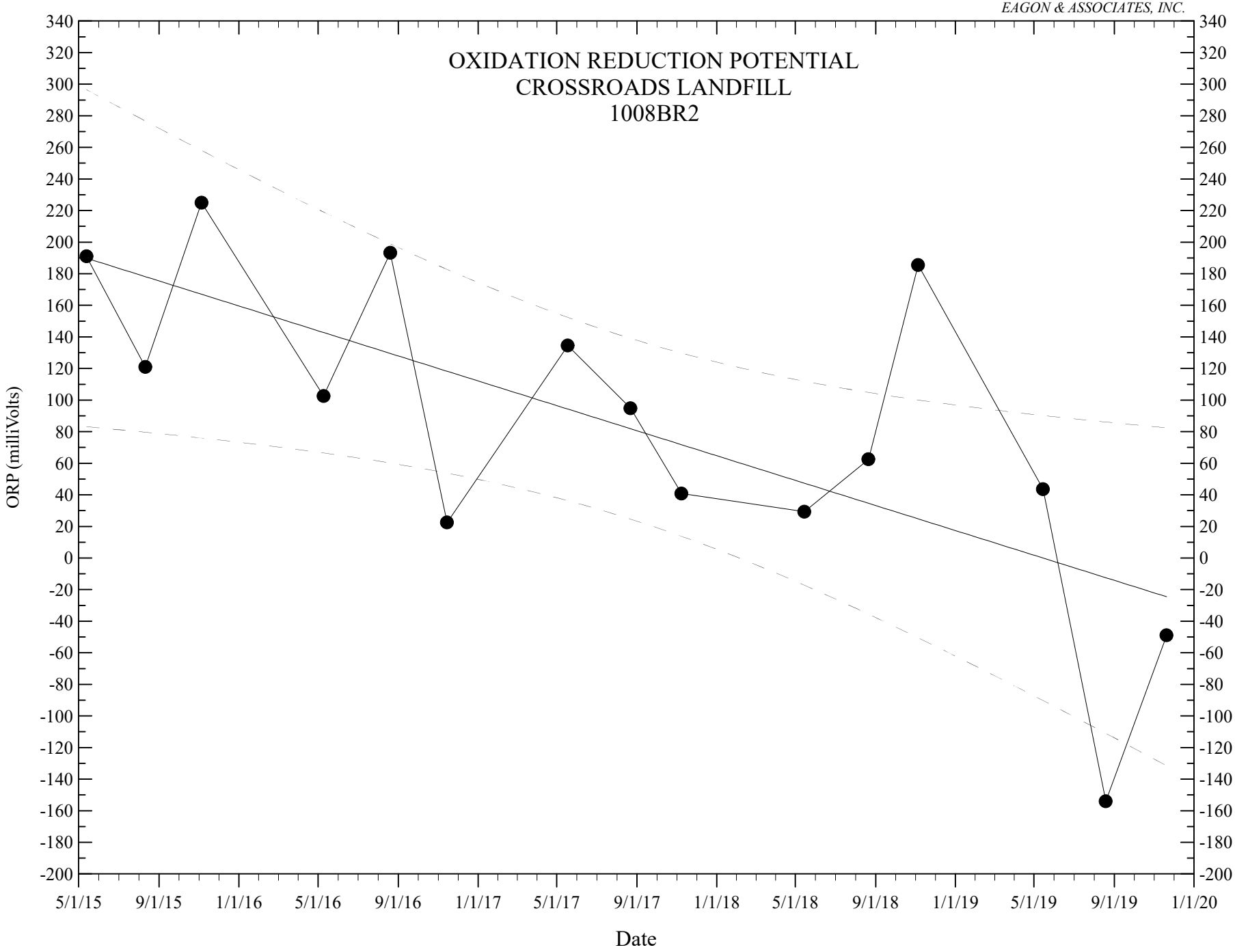

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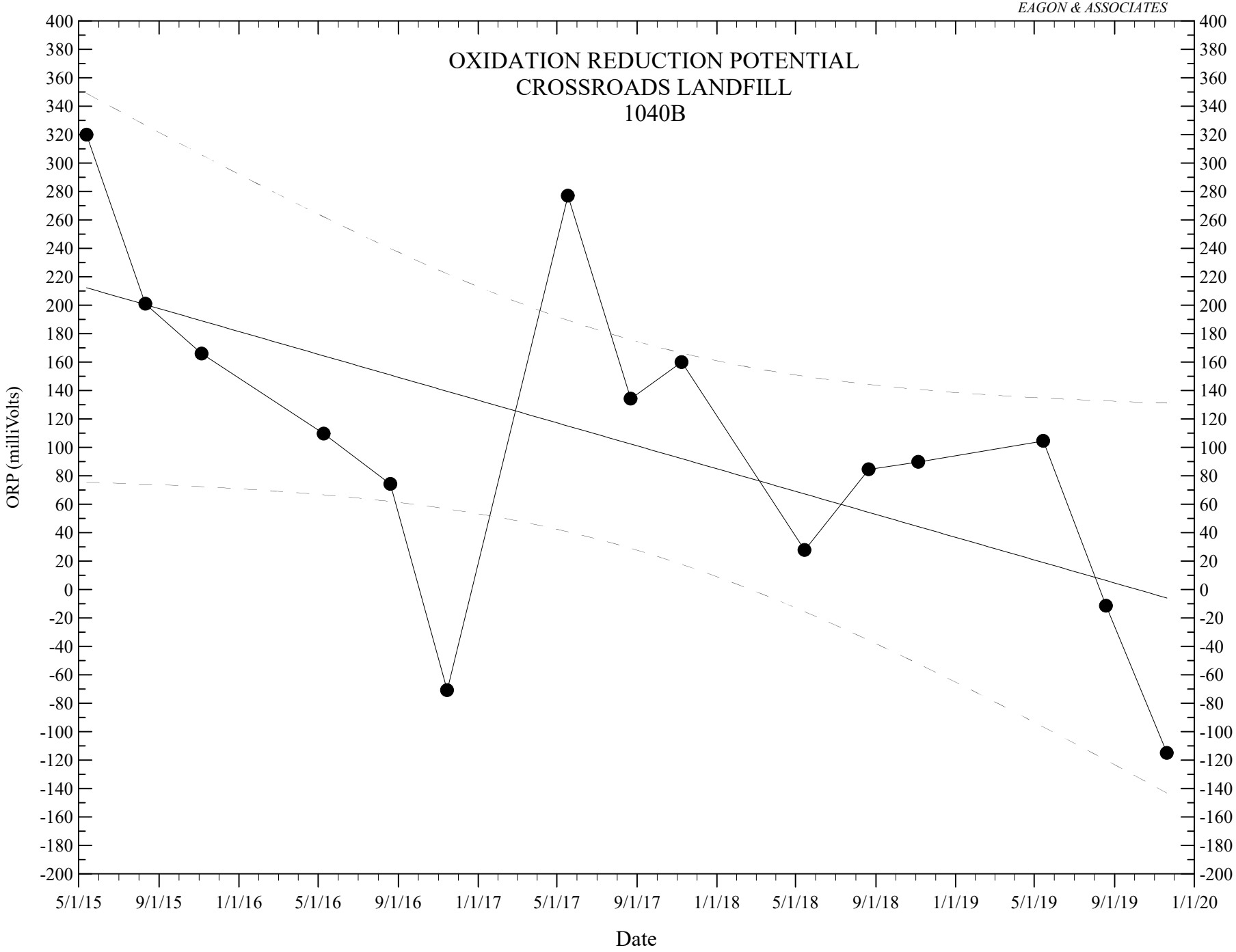

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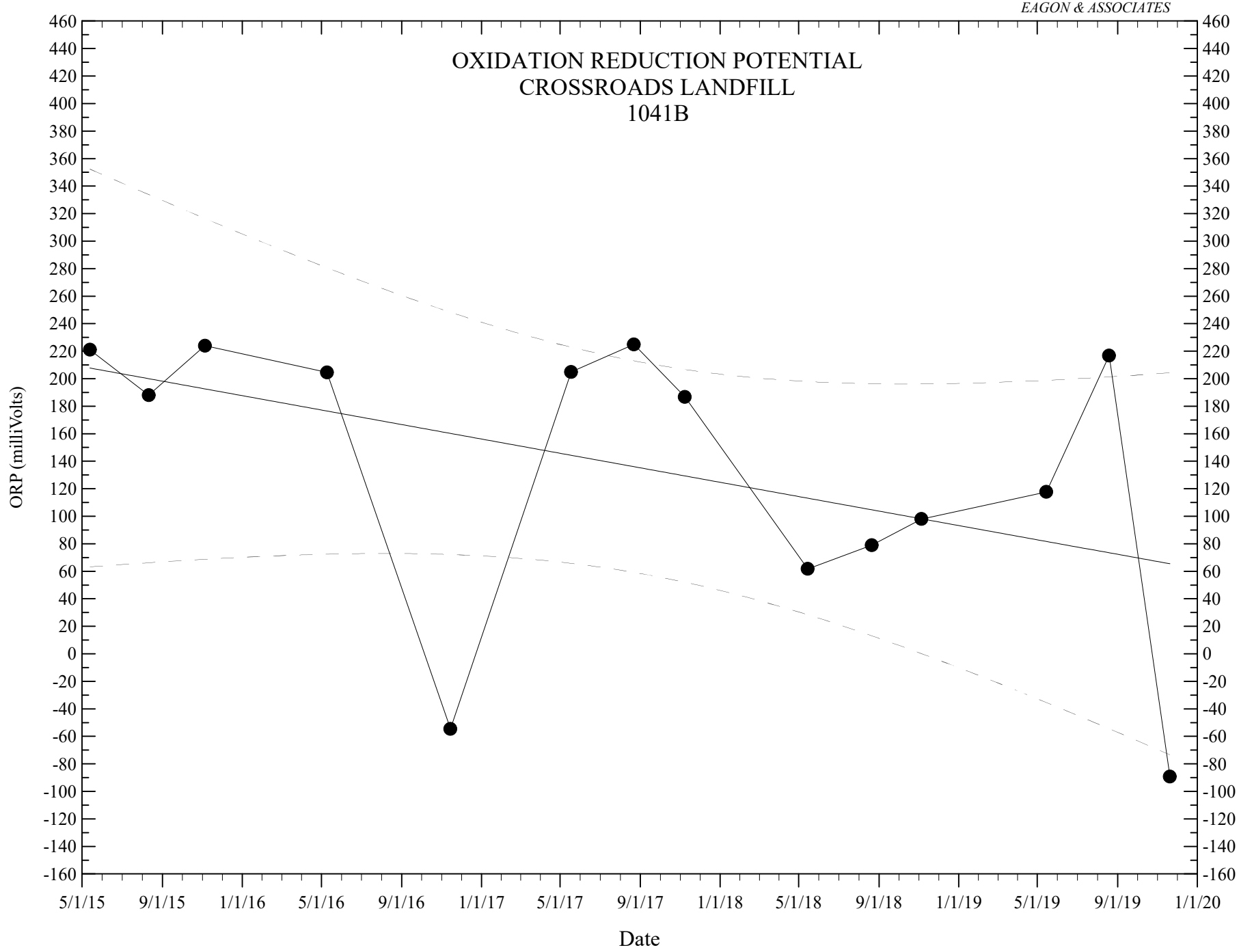
EAGON & ASSOCIATES



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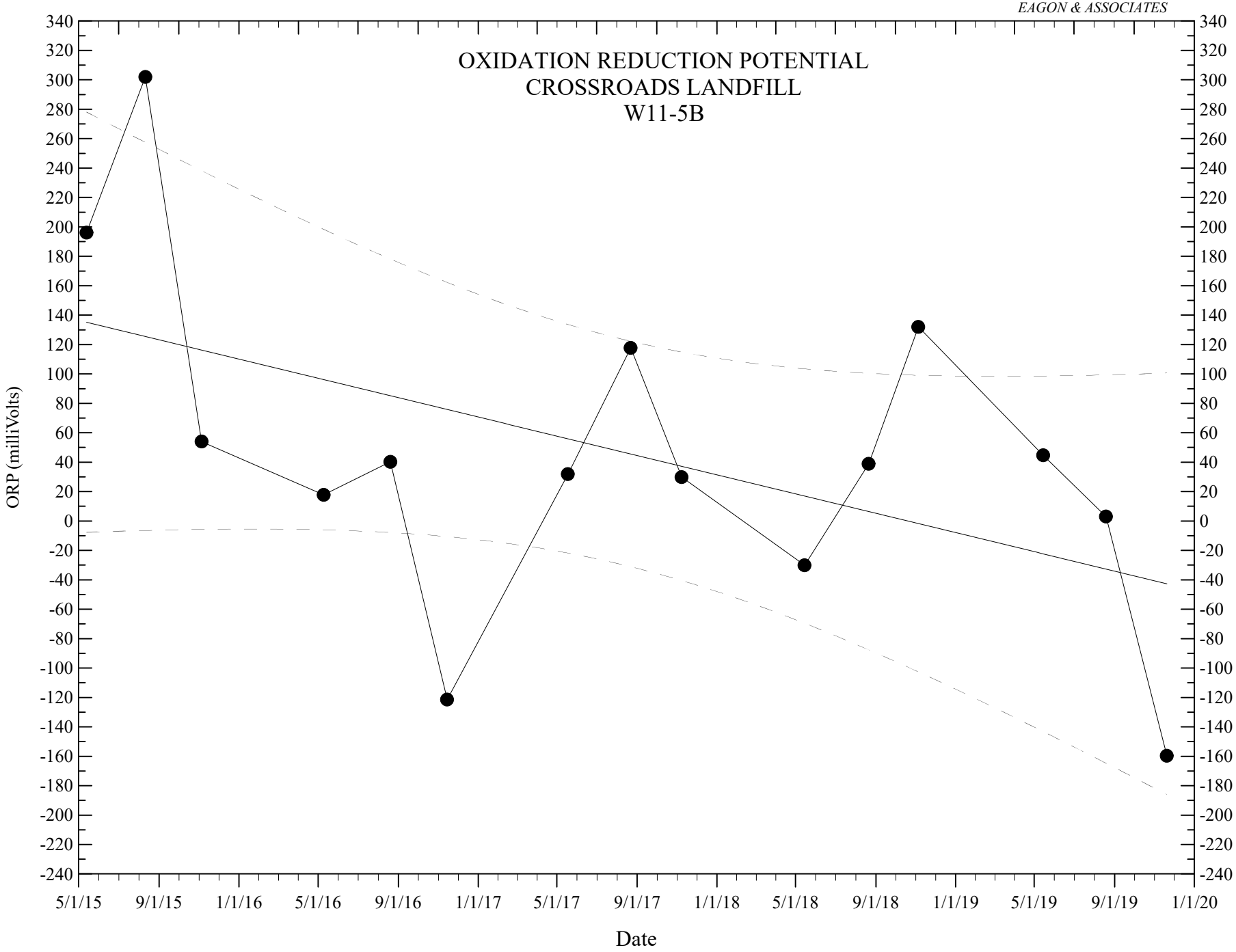
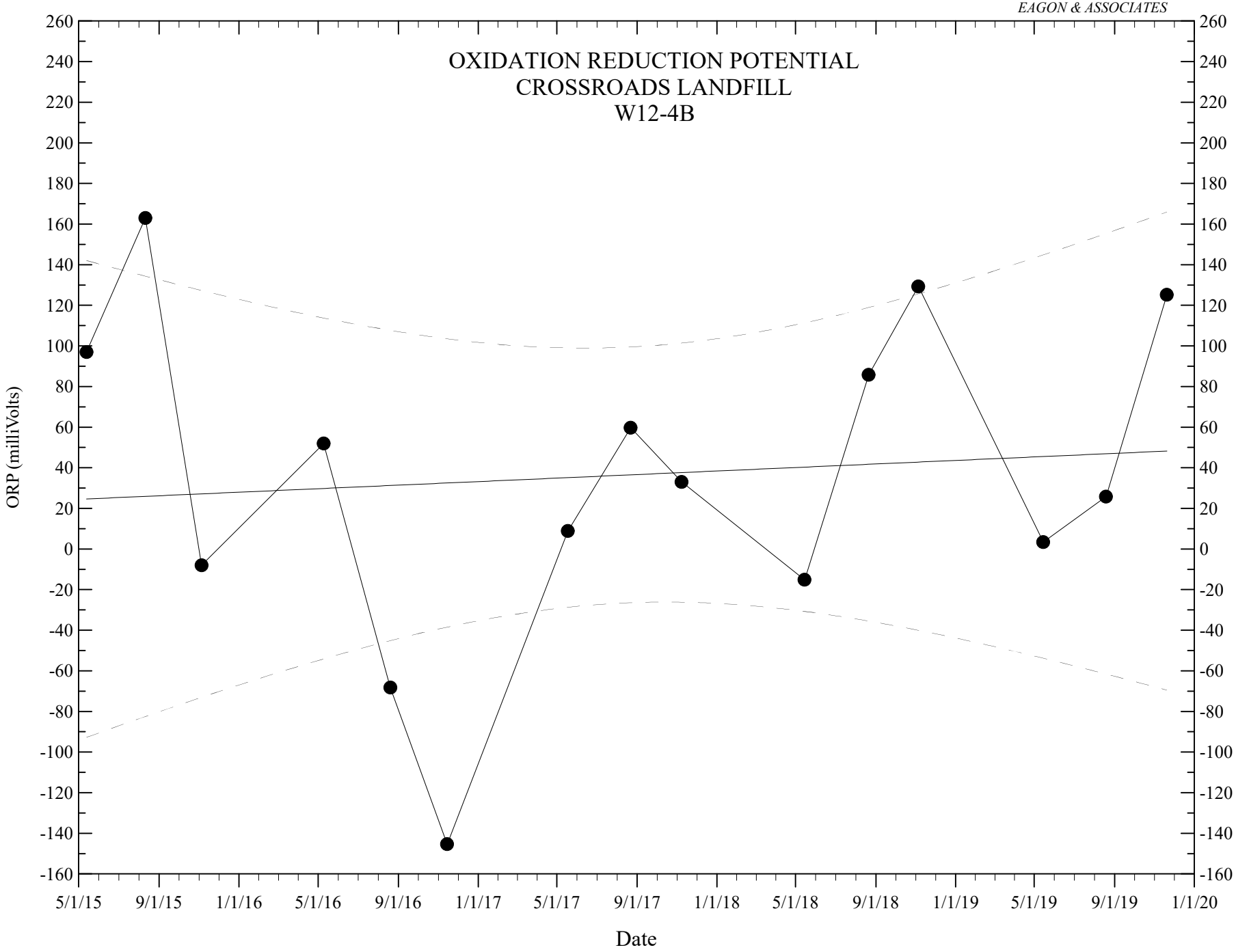


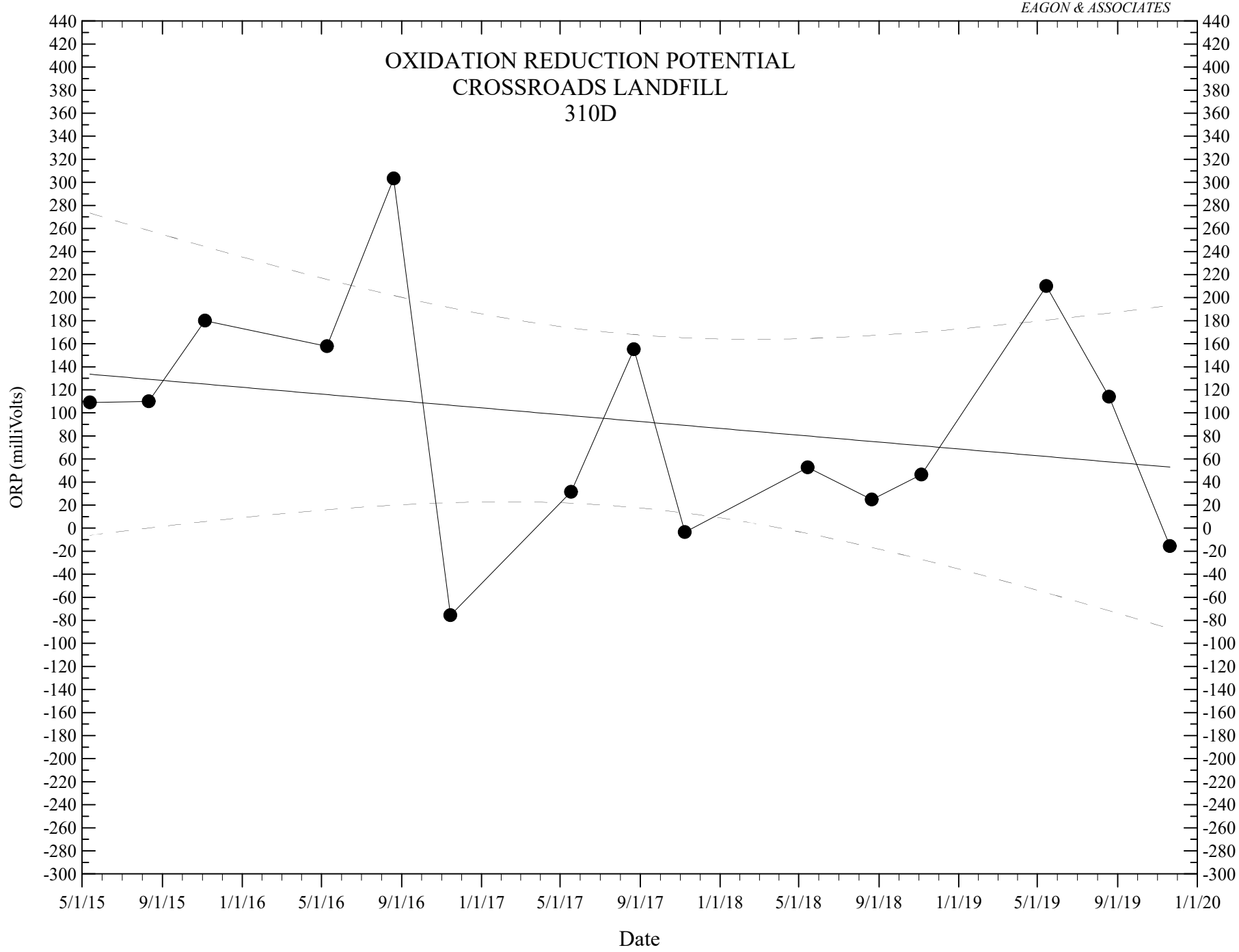
Crossroads/W11-5B ORP.GRF
3/9/20



Crossroads/W12-4B ORP.GRF
3/9/20

Upgradient Wells – Bedrock Zone

EAGON & ASSOCIATES



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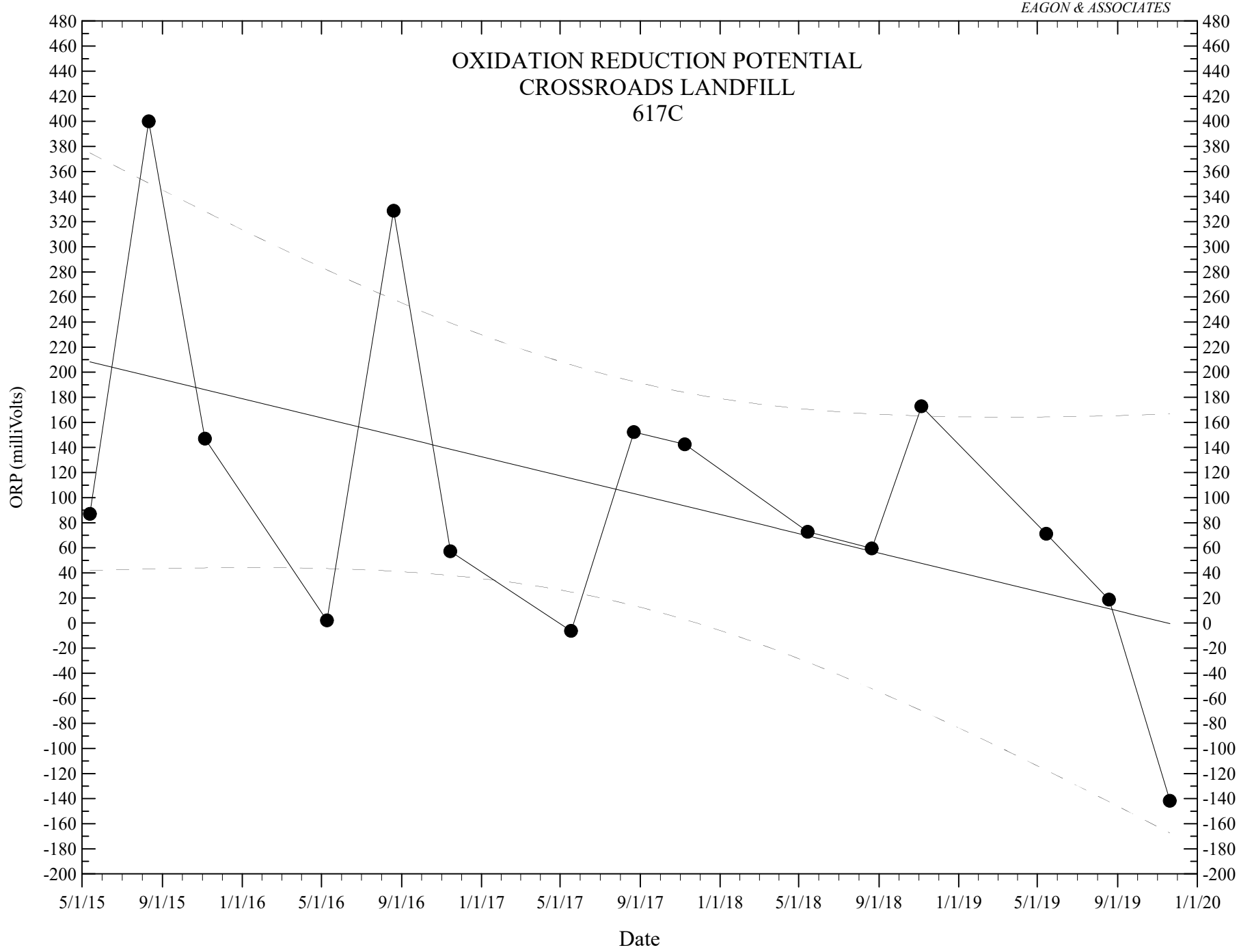
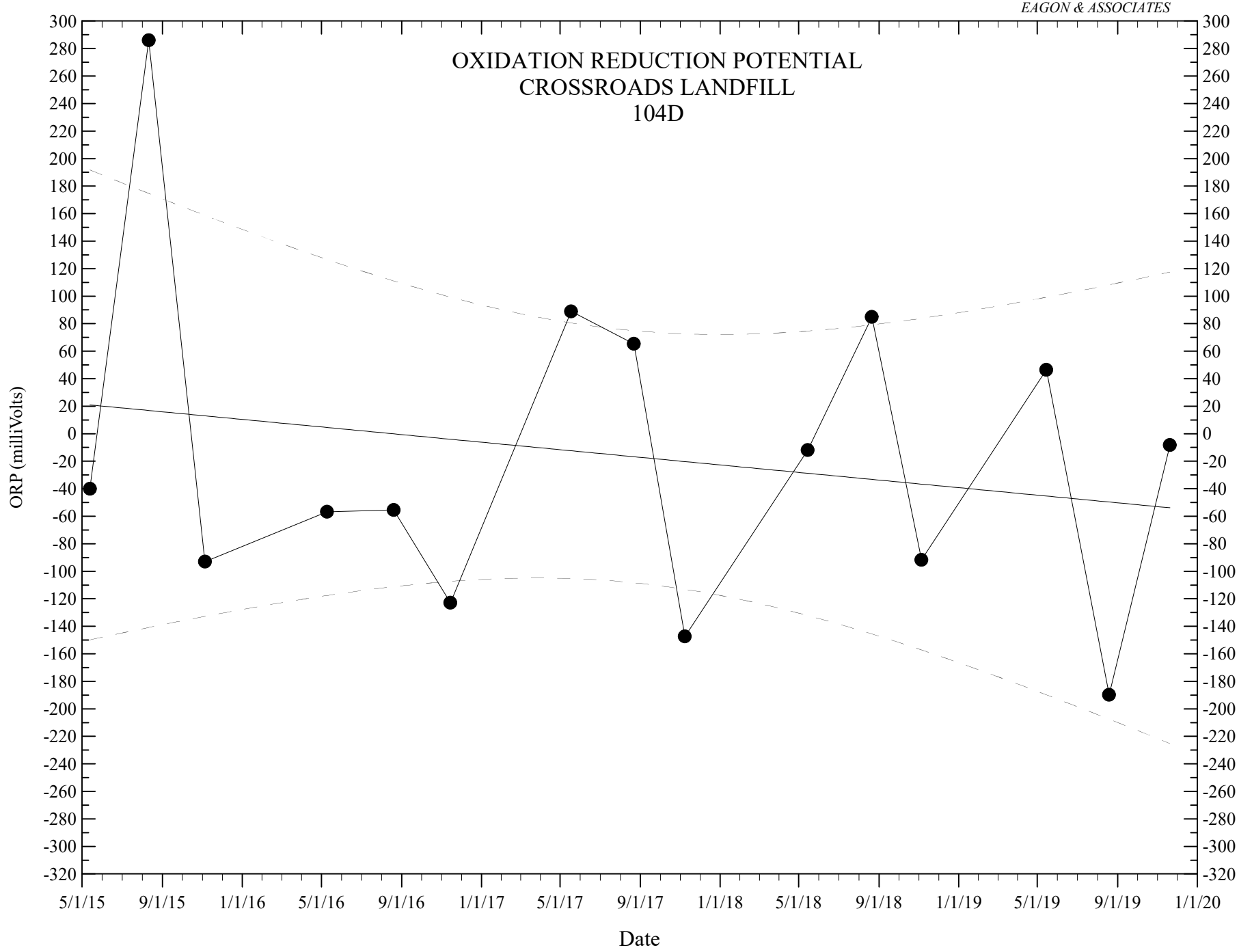


Crossroads/617C ORP.GRF
3/9/20

Downgradient Wells – Bedrock Zone

EAGON & ASSOCIATES



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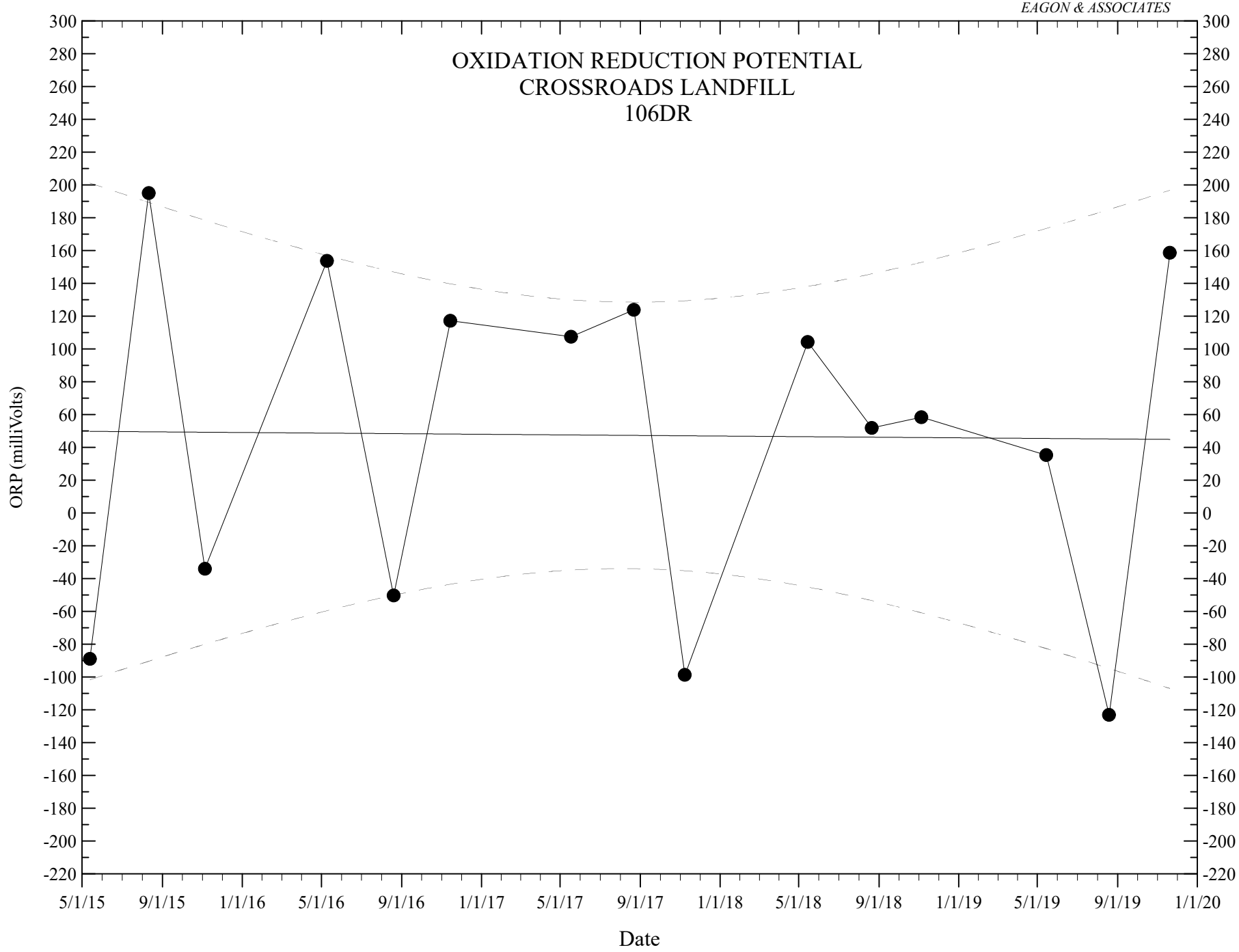
3/9/20



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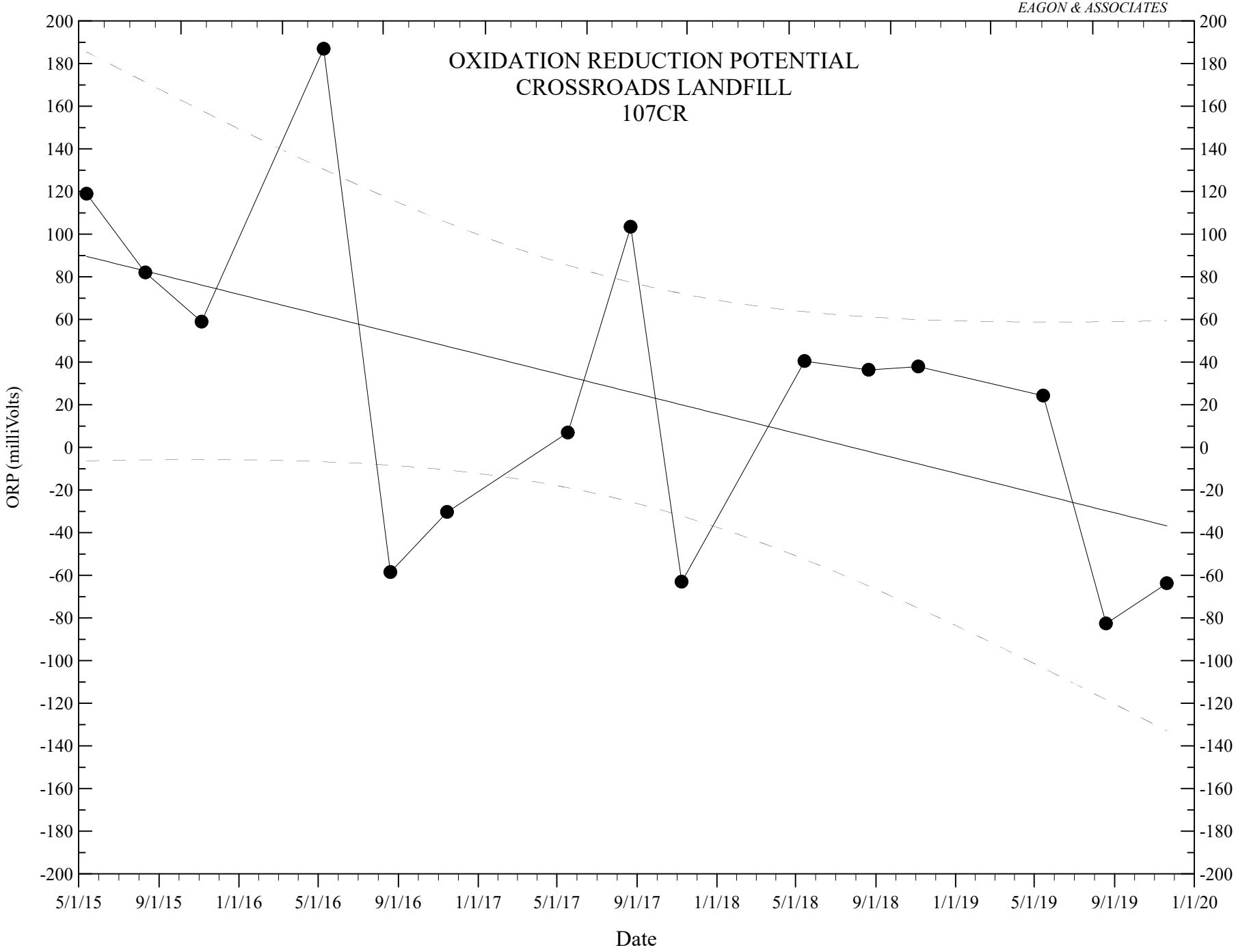
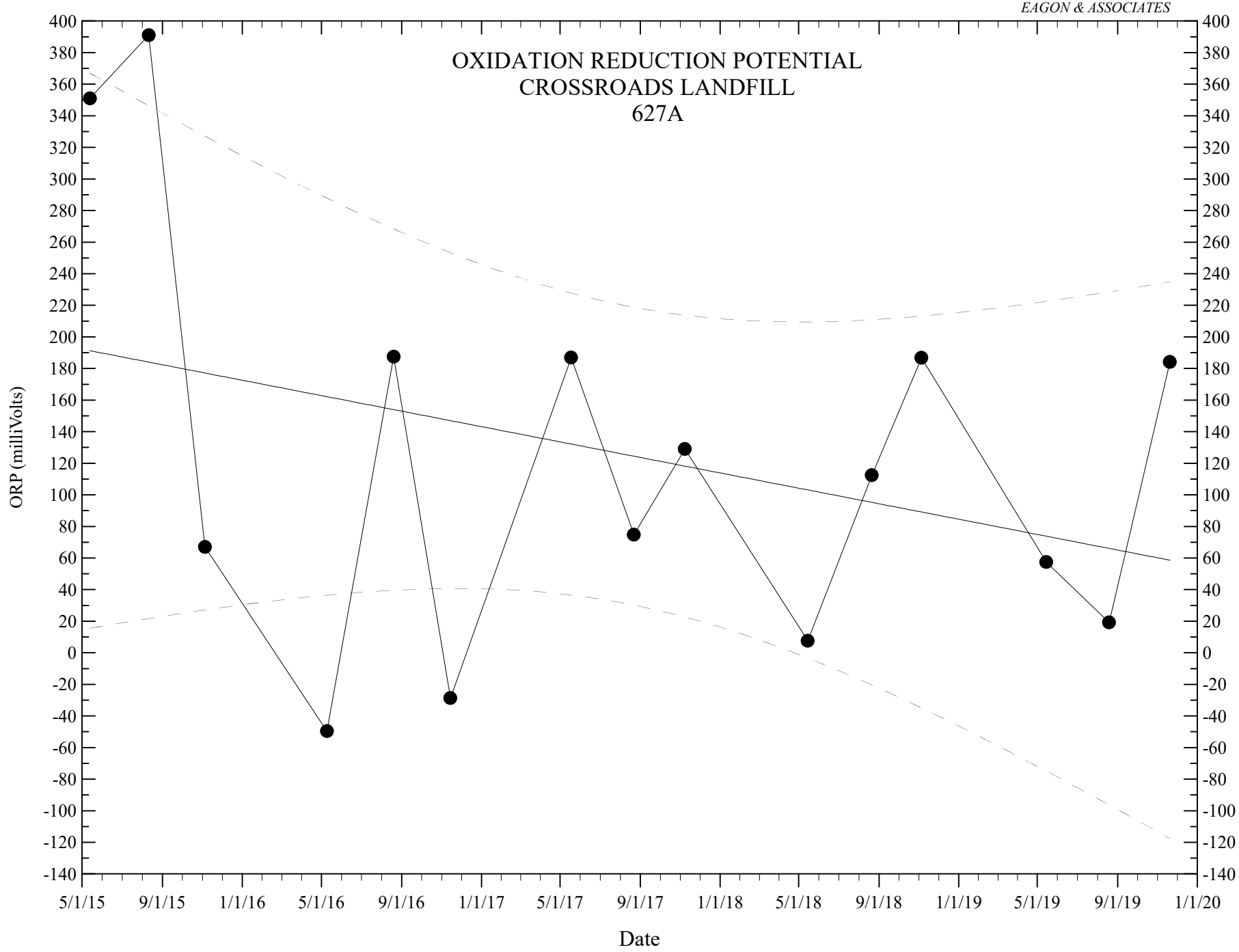
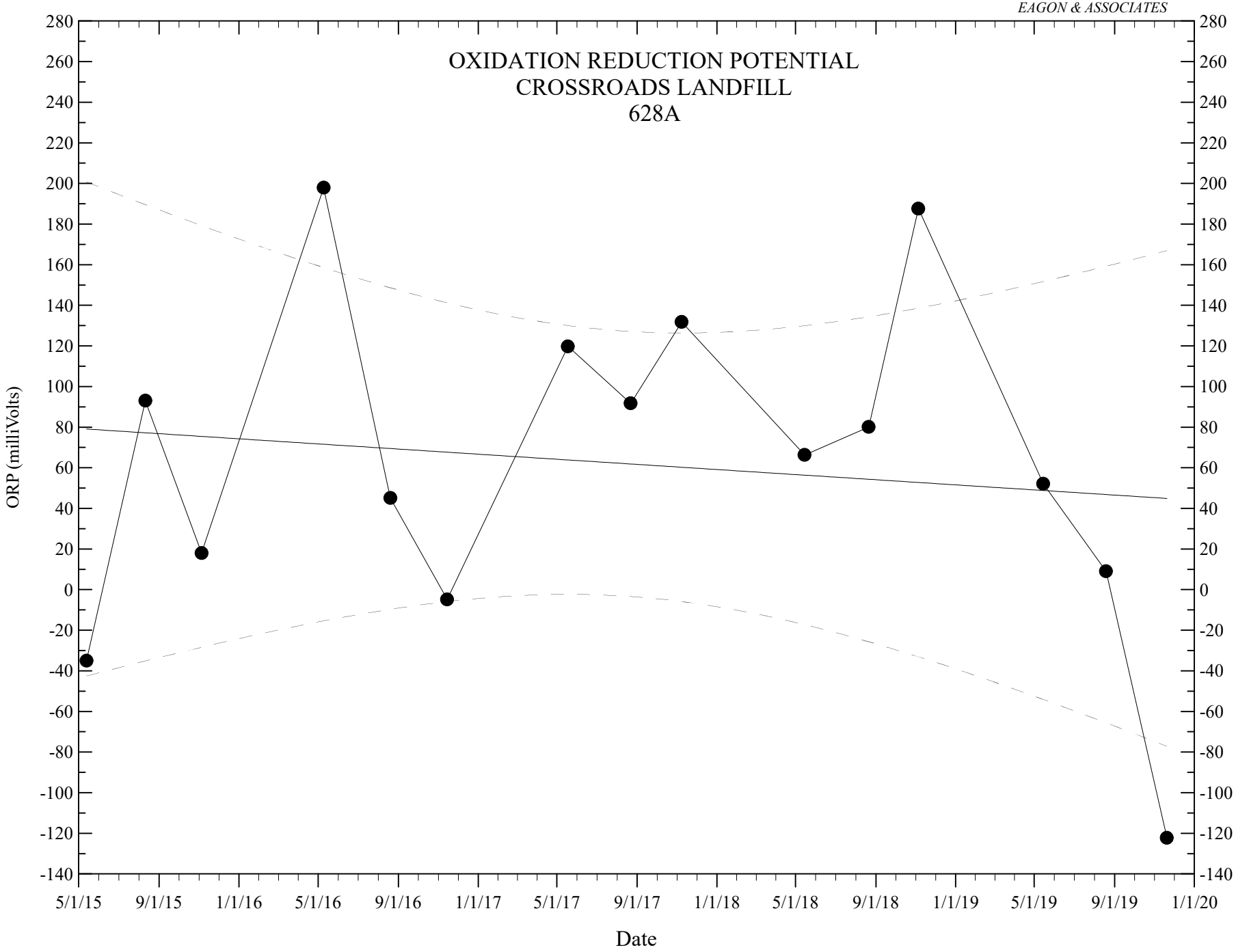


Crossroads/107CR ORP.GRF
3/9/20



Crossroads/627A ORP.GRF
3/9/20



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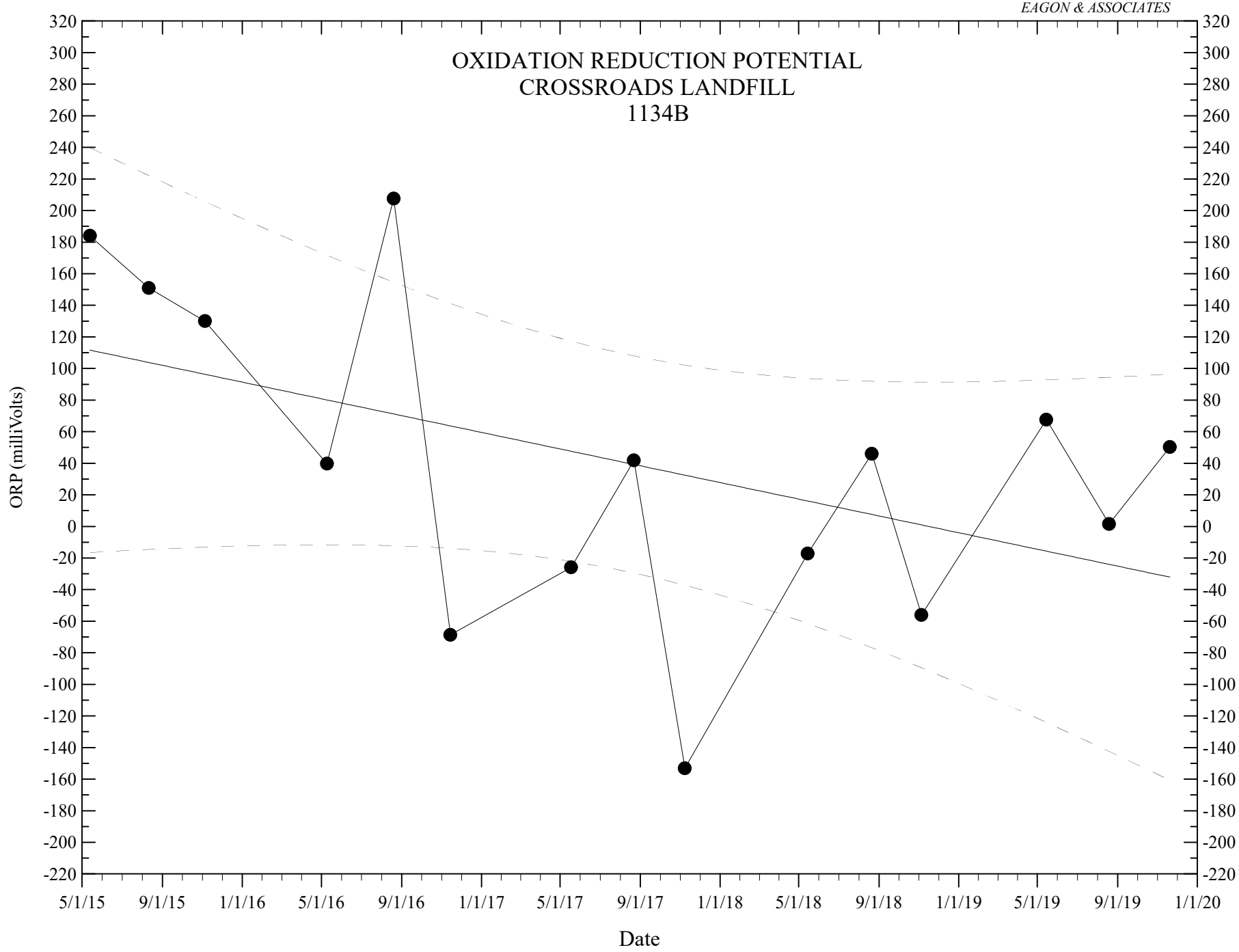
3/9/20



Crossroads/1134B ORP.GRF
3/9/20

ATTACHMENT D.

TIME-SERIES GRAPHS

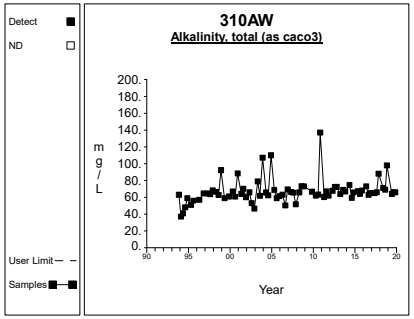
GROUNDWATER PROTECTION STANDARDS
CROSSROADS LANDFILL

Constituent	SMCL (mg/L)	Maine MEG (2012) (mg/L)
Aluminum	0.05	7
Ammonia	--	30
Arsenic	--	0.01
Barium	--	1
Cadmium	--	0.001
Chloride	250	--
Chromium	--	0.02
Copper	1.0	0.5
Iron	0.3	5
Lead	--	0.01
Manganese	0.05	0.3
Mercury	--	0.002
Nickel	--	0.02
Nitrogen, nitrate	--	10
Silver	0.1	0.04
Sodium	--	20
Sulfate	250	--
Total Dissolved Solids	500	--
Vanadium	--	0.2
Zinc	5	2

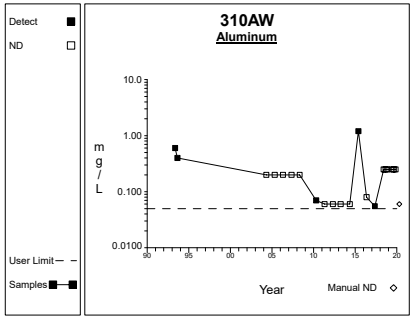
Note: For parameters with both a SMCL and MEG, the lower of the two standards is shown on the time-series graphs.

Upgradient Wells - Phreatic Zone

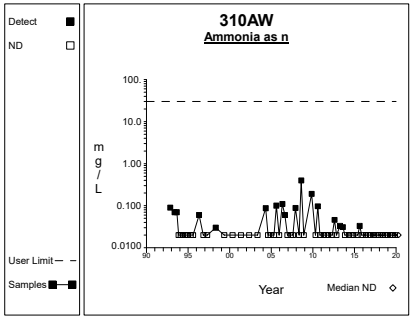
Time Series



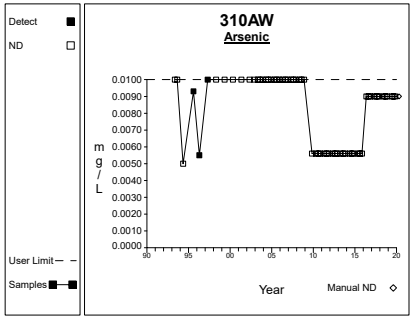
Graph 1



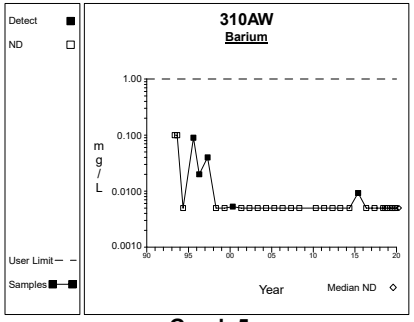
Graph 2



Graph 3



Graph 4



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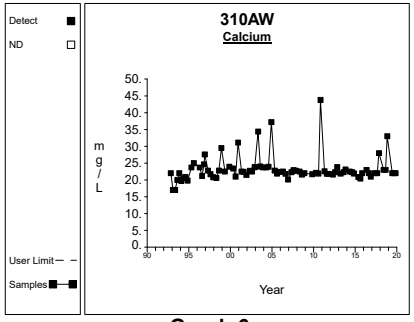

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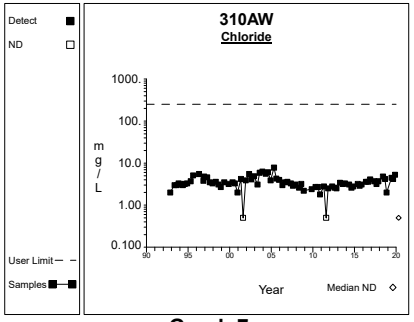

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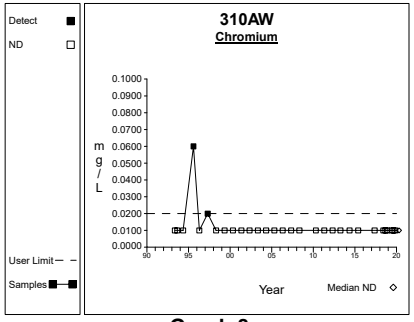

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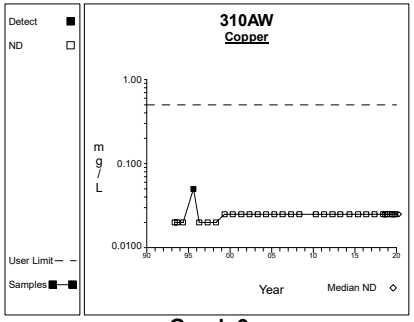
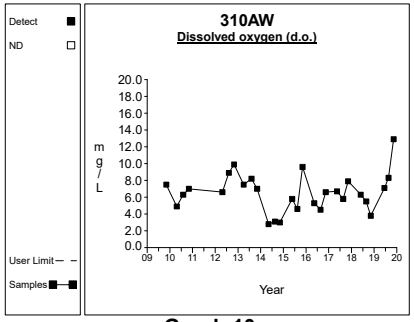


Graph 9



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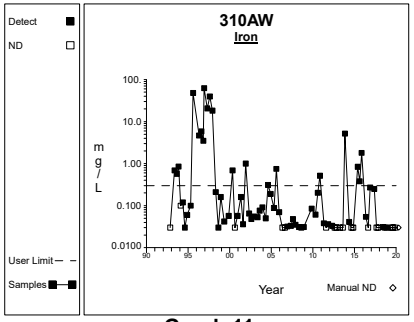

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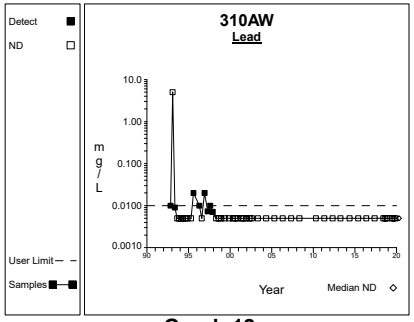
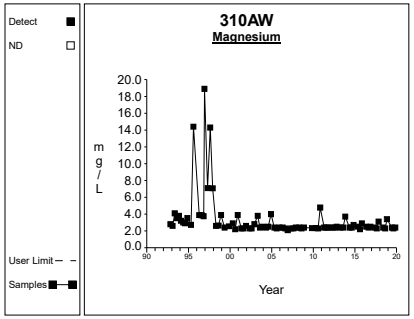
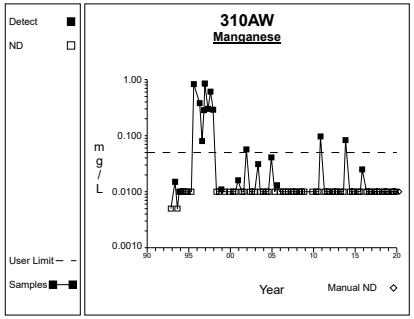


Graph 12

Time Series



Graph 13



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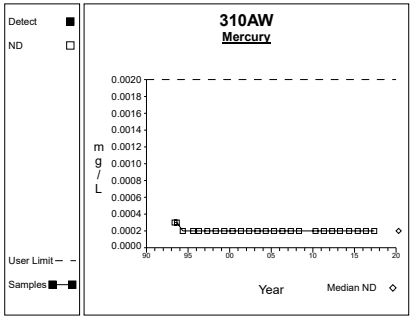
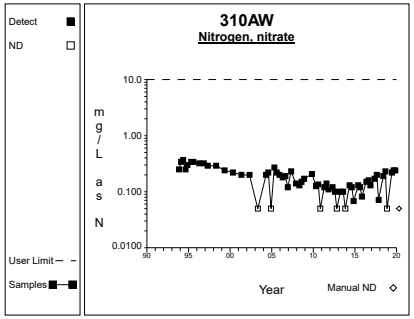
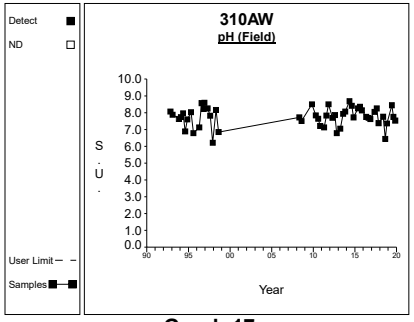


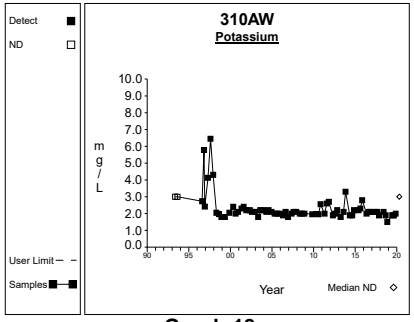
Graph 15



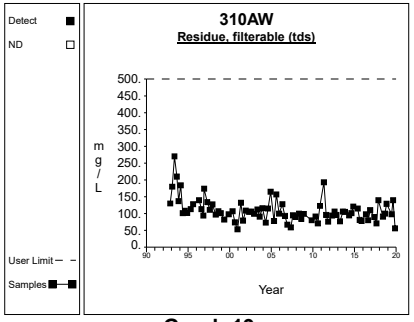
Graph 16



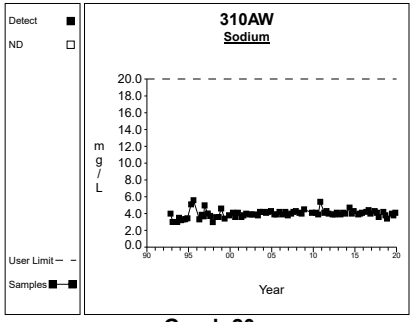
Graph 17



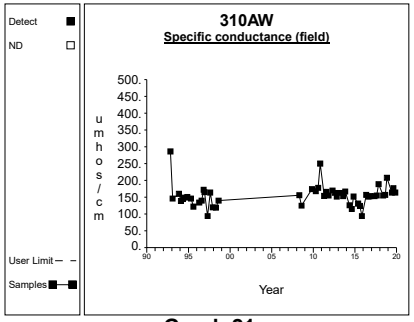
Graph 18



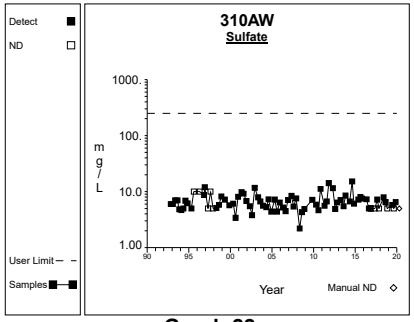
Graph 19



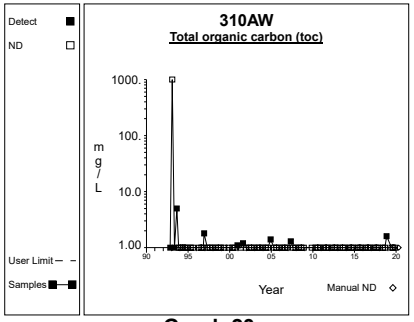
Graph 20



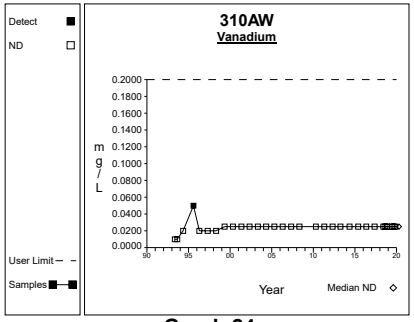
Graph 21



Graph 22

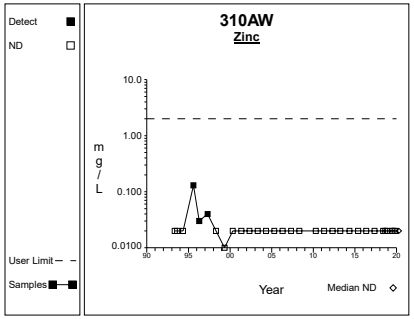


Graph 23

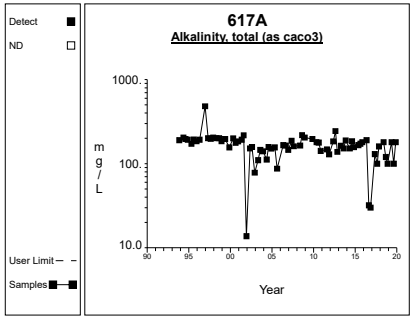


Graph 24

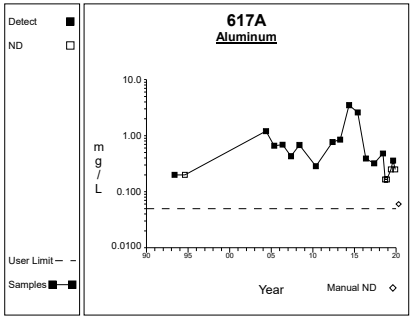
Time Series



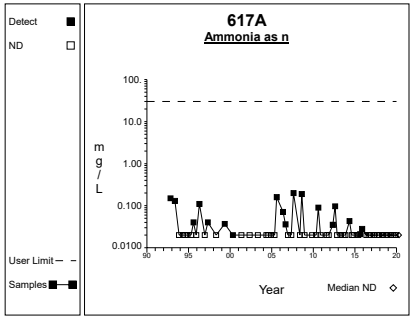
Graph 25



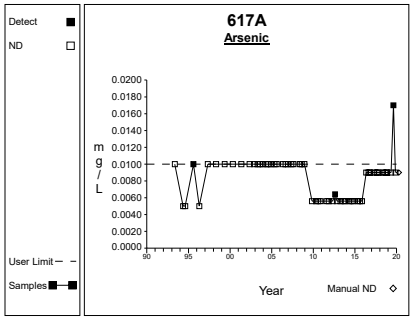
Graph 26



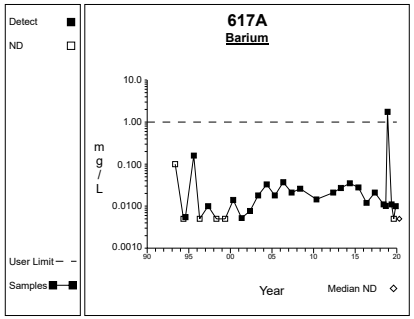
Graph 27



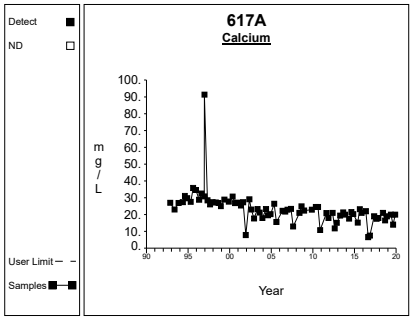
Graph 28



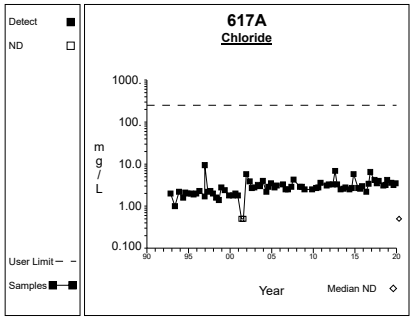
Graph 29



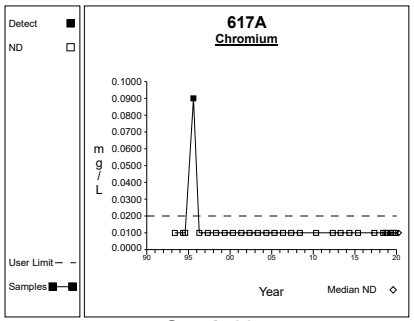
Graph 30



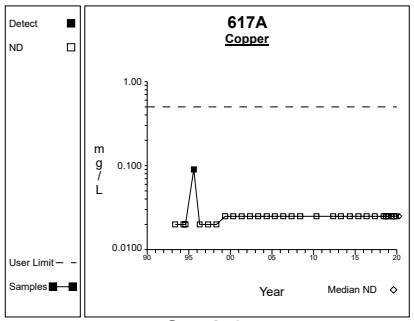
Graph 31



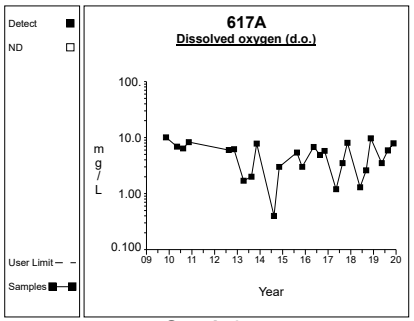
Graph 32



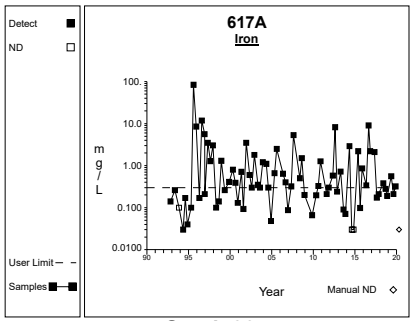
Graph 33



Graph 34

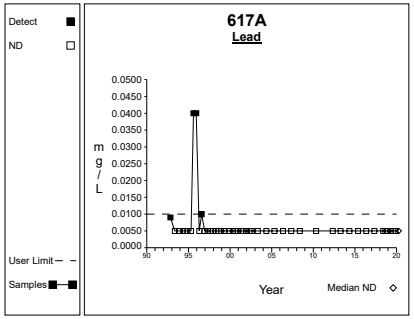


Graph 35

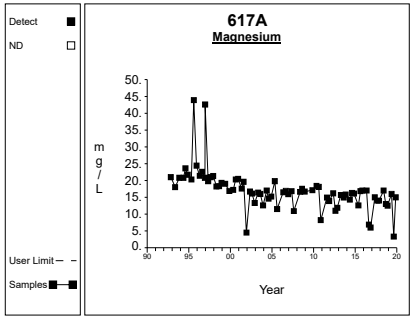


Graph 36

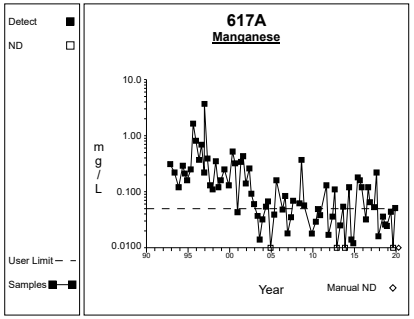
Time Series



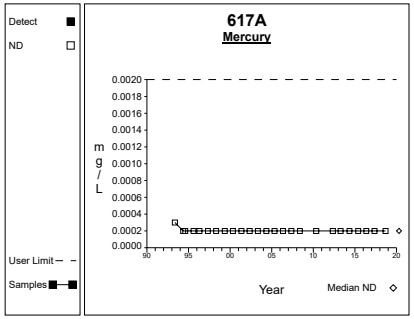
Graph 37



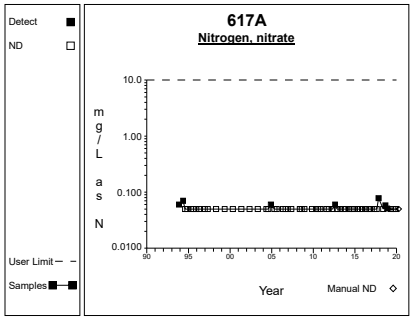
Graph 38



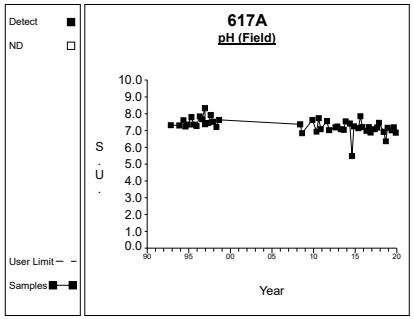
Graph 39



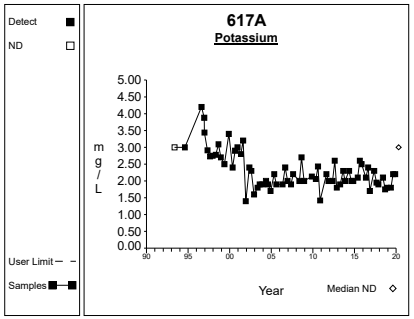
Graph 40



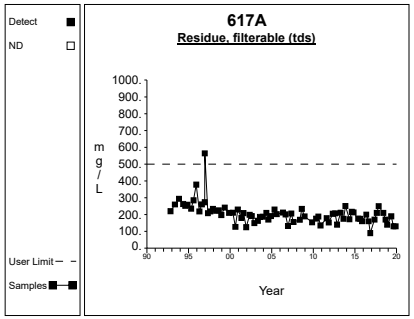
Graph 41



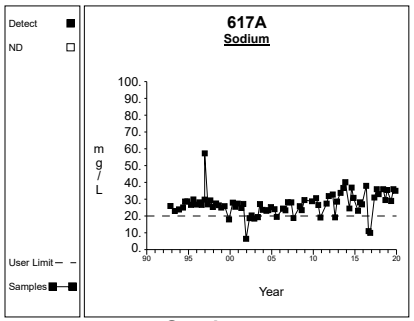
Graph 42



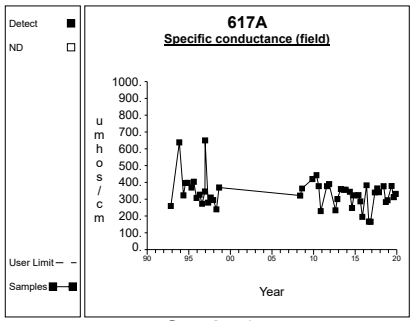
Graph 43



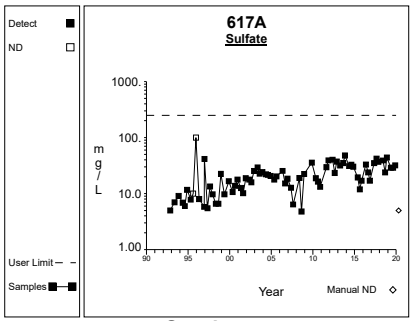
Graph 44



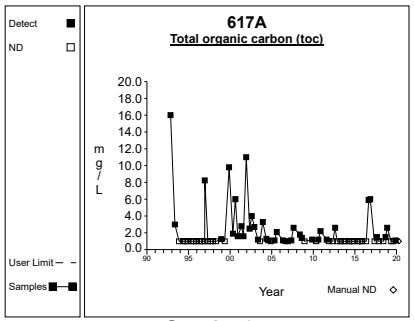
Graph 45



Graph 46

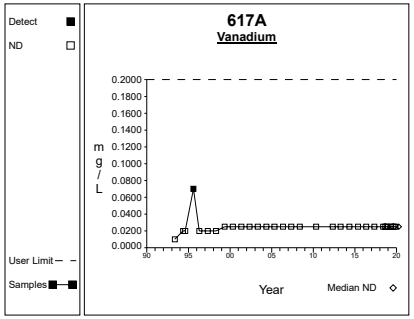


Graph 47

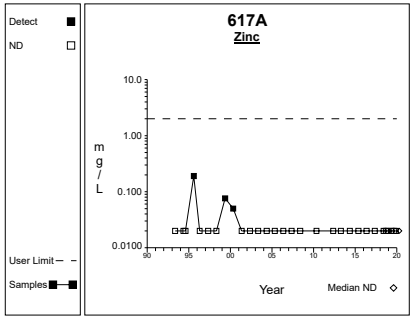


Graph 48

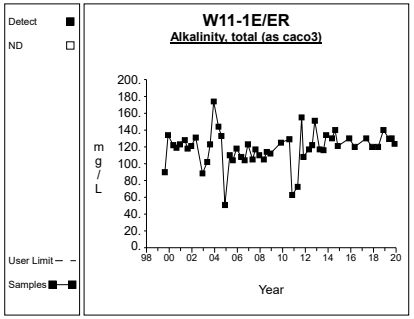
Time Series



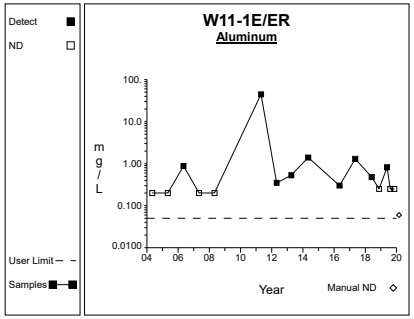
Graph 49



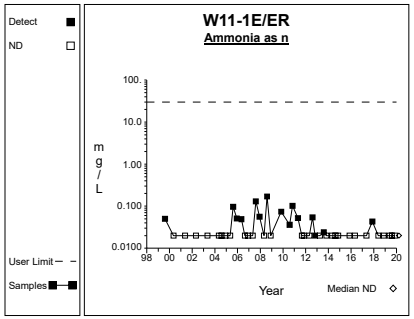
Graph 50



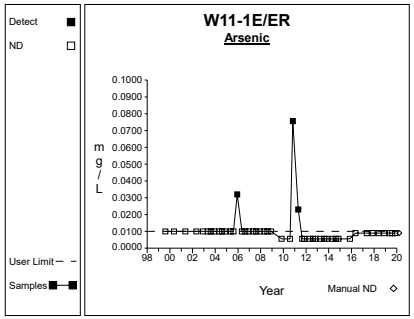
Graph 51



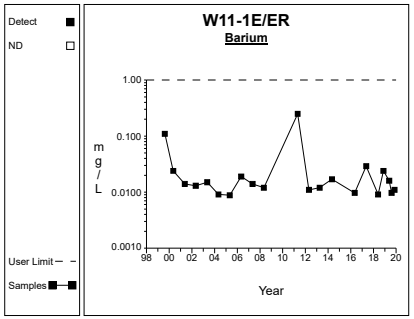
Graph 52



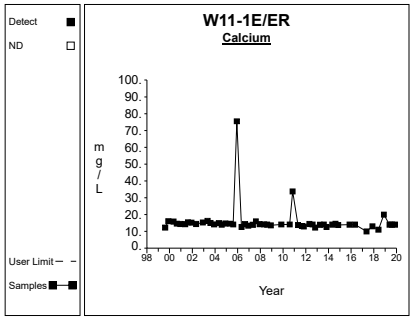
Graph 53



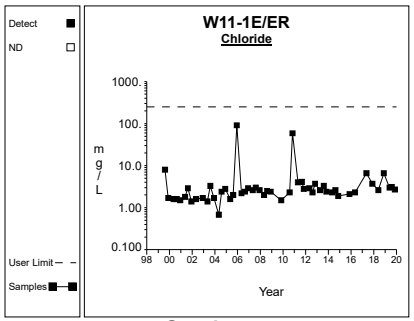
Graph 54



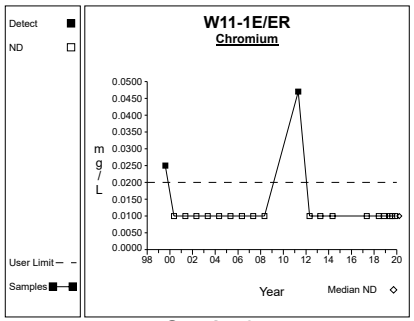
Graph 55



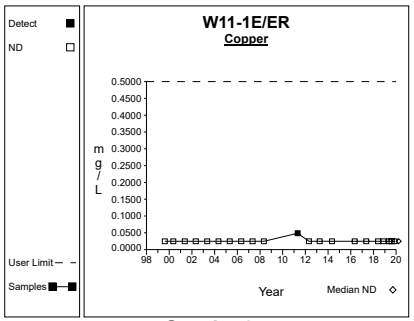
Graph 56



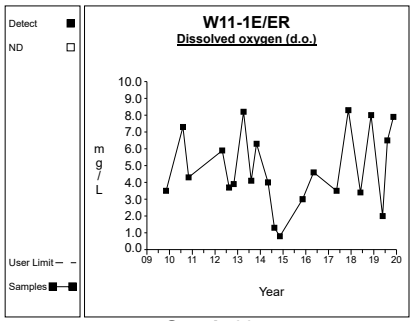
Graph 57



Graph 58

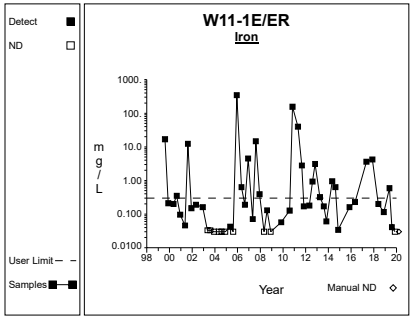


Graph 59

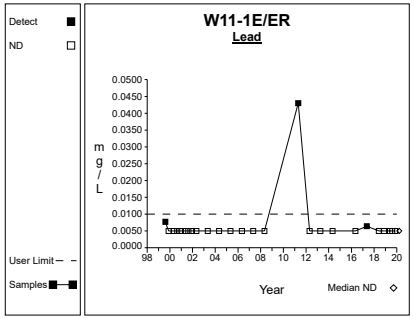


Graph 60

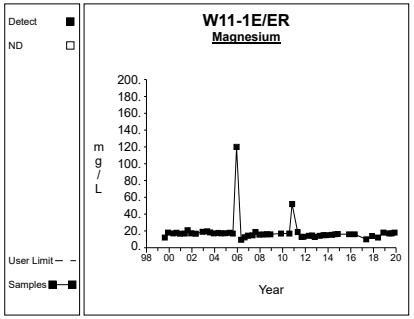
Time Series



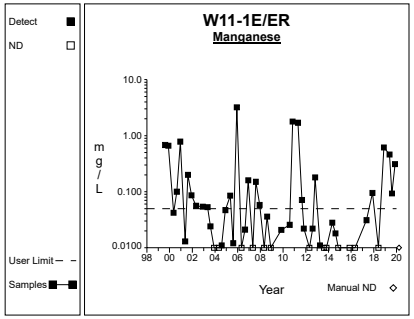
Graph 61



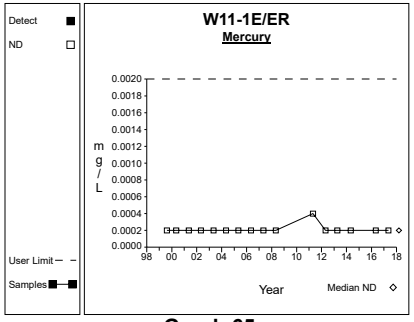
Graph 62



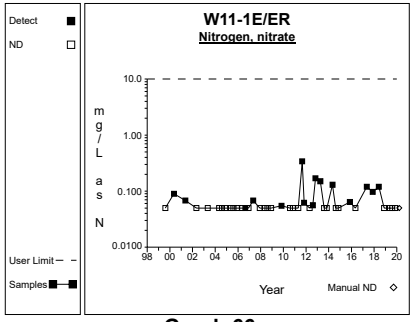
Graph 63



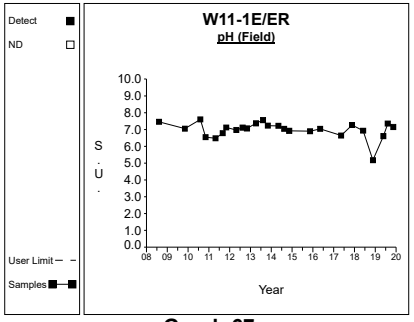
Graph 64



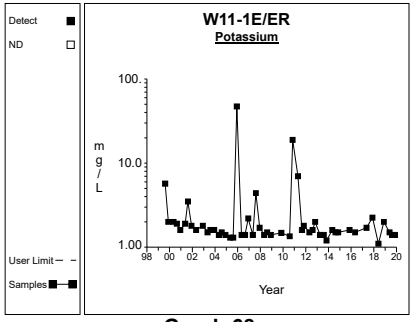
Graph 65



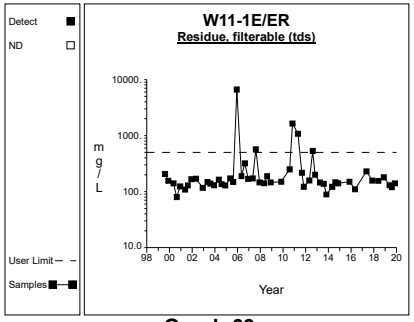
Graph 66



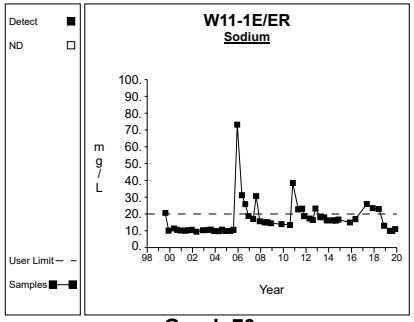
Graph 67



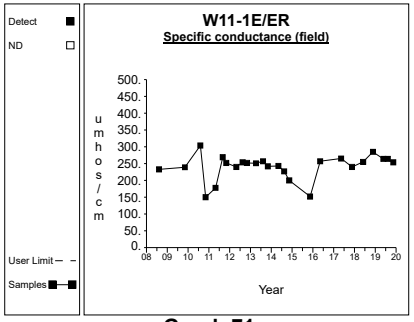
Graph 68



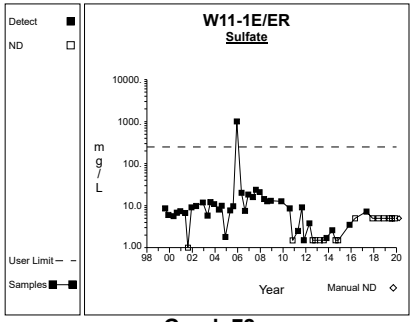
Graph 69



Graph 70

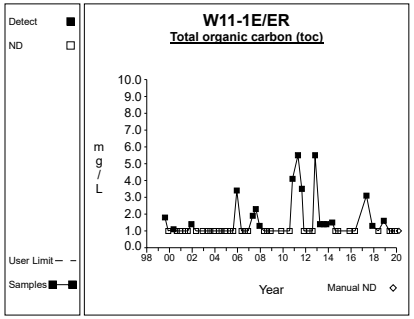


Graph 71

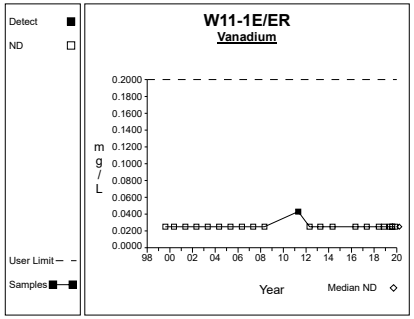


Graph 72

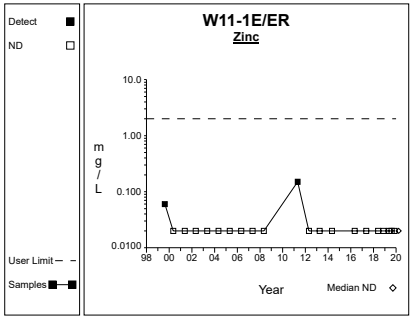
Time Series



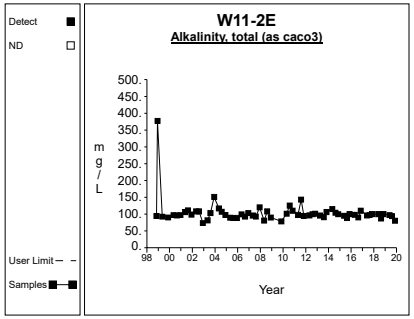
Graph 73



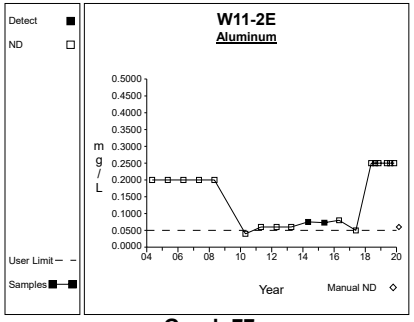
Graph 74



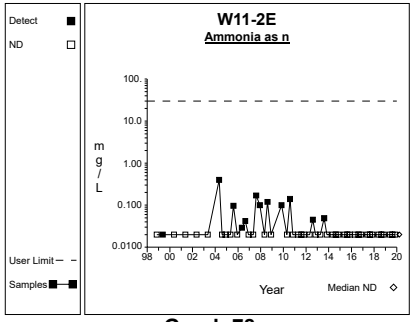
Graph 75



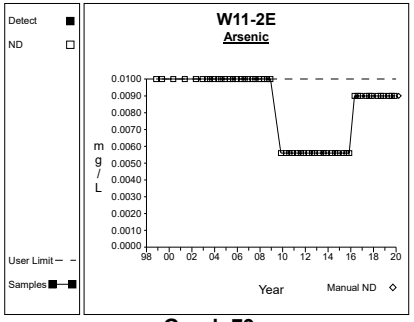
Graph 76



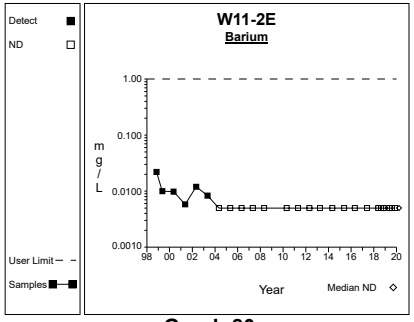
Graph 77



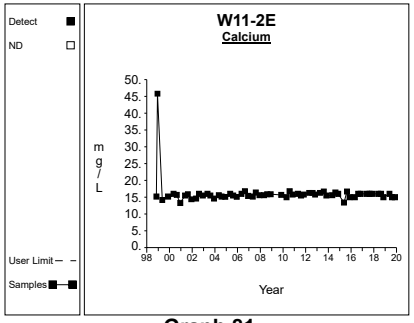
Graph 78



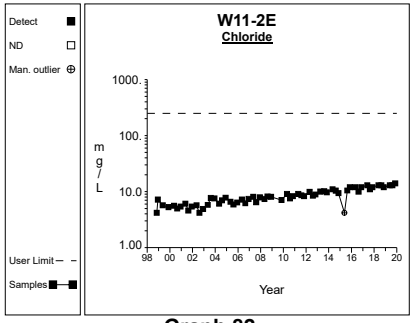
Graph 79



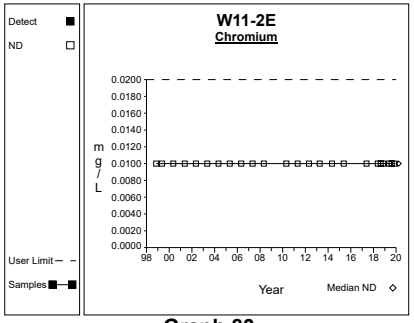
Graph 80



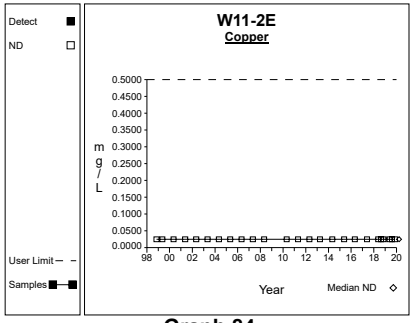
Graph 81



Graph 82

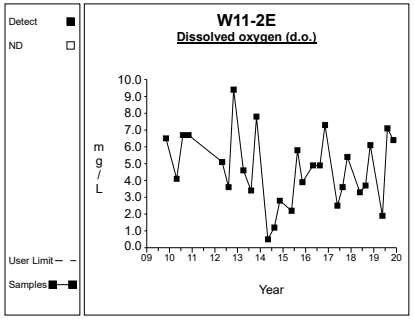


Graph 83

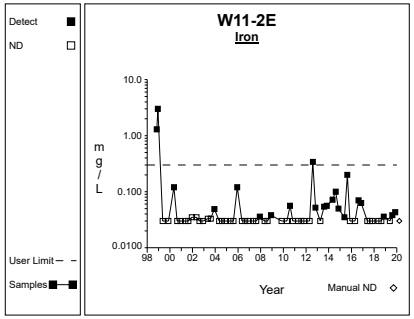


Graph 84

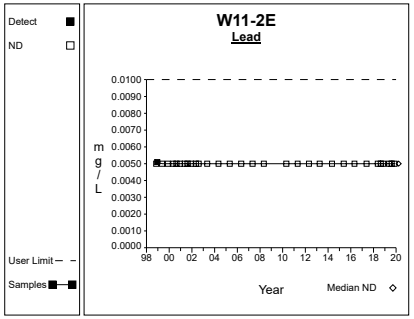
Time Series



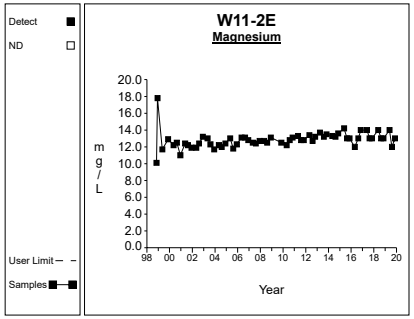
Graph 85



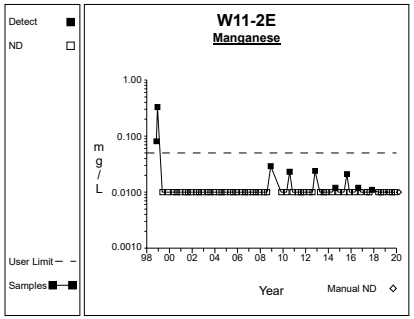
Graph 86



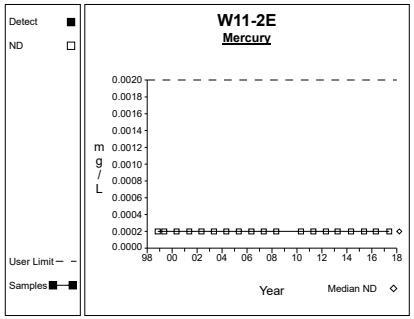
Graph 87



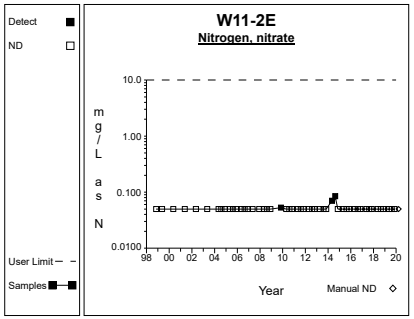
Graph 88



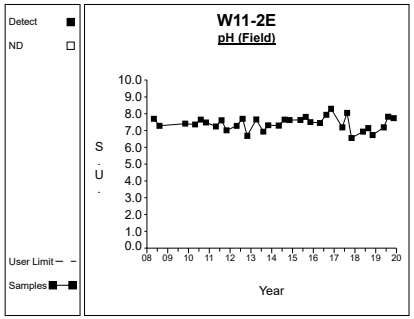
Graph 89



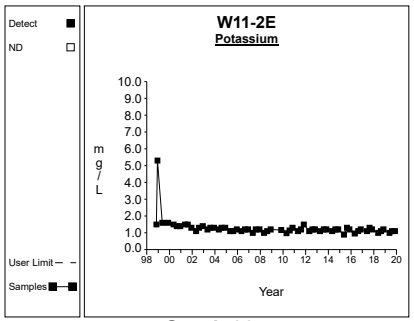
Graph 90



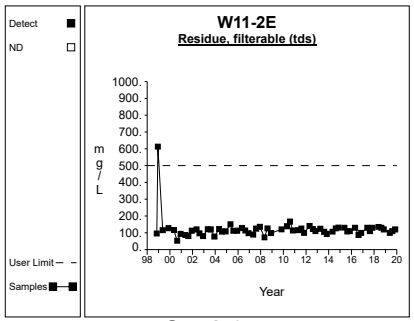
Graph 91



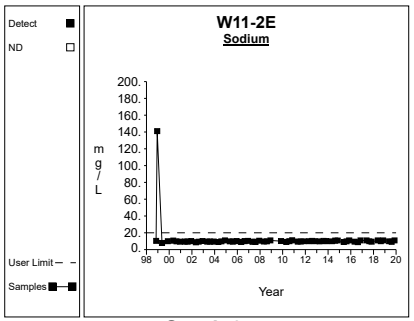
Graph 92



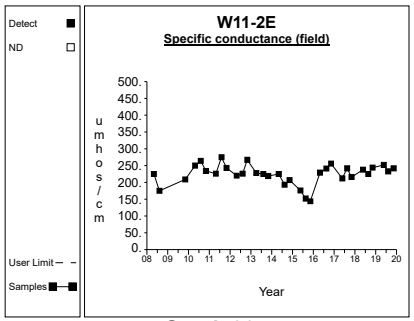
Graph 93



Graph 94

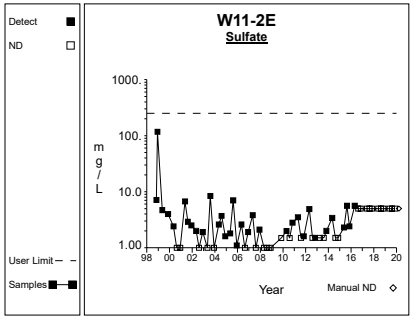


Graph 95

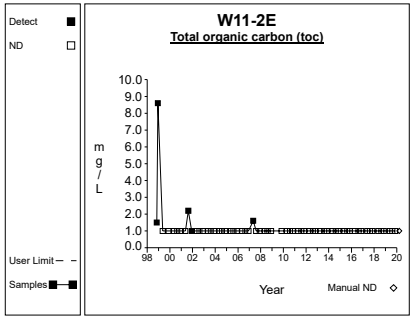


Graph 96

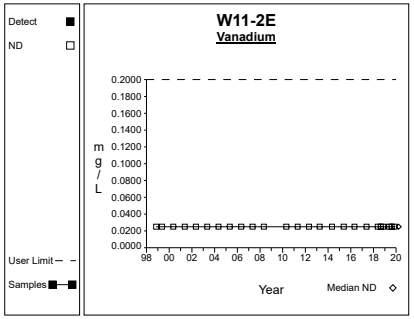
Time Series



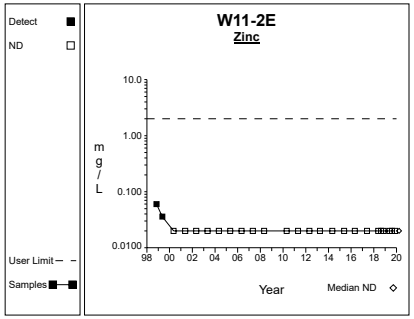
Graph 97



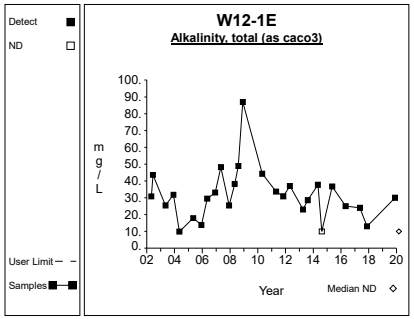
Graph 98



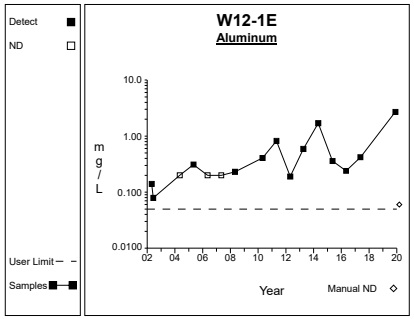
Graph 99



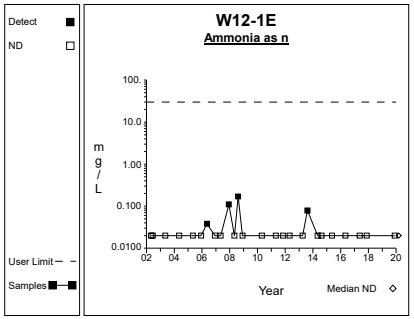
Graph 100



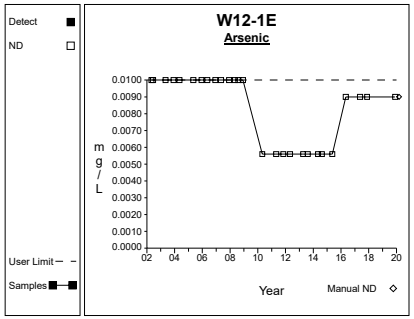
Graph 101



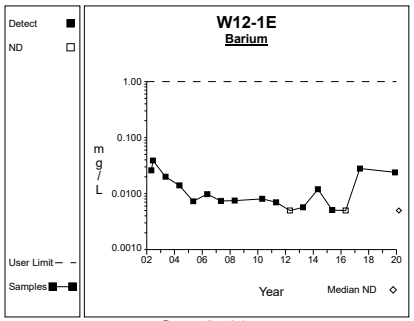
Graph 102



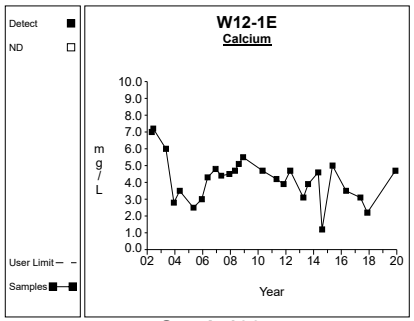
Graph 103



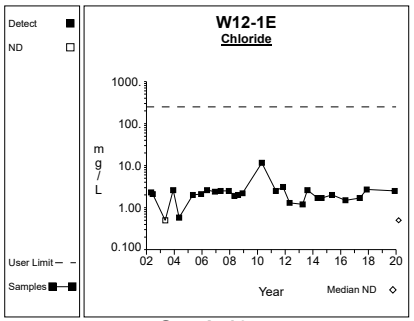
Graph 104



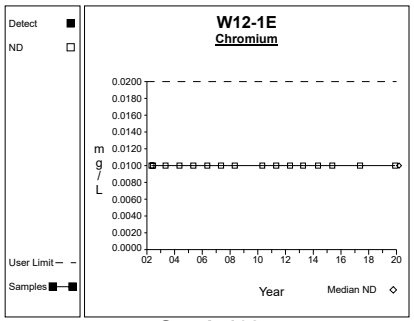
Graph 105



Graph 106

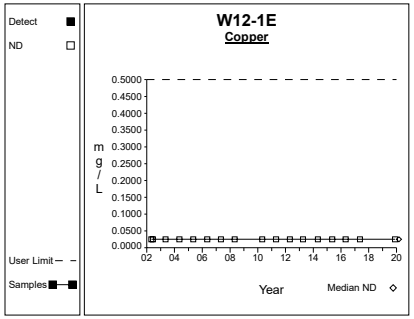


Graph 107

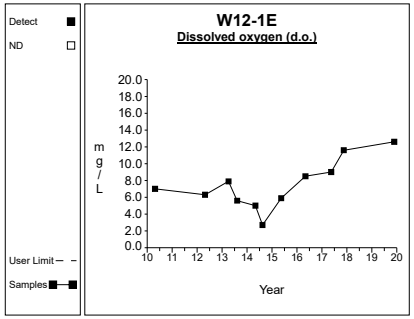


Graph 108

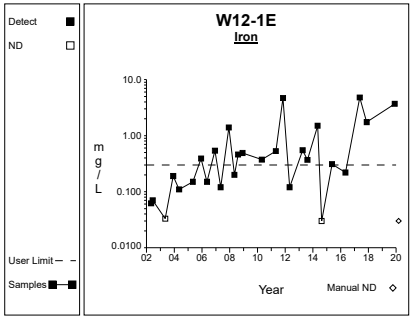
Time Series



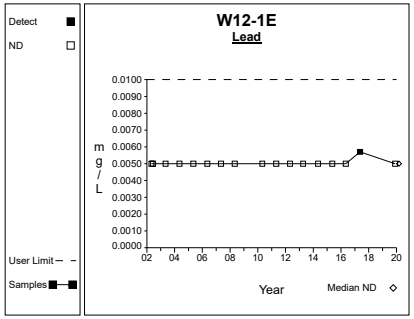
Graph 109



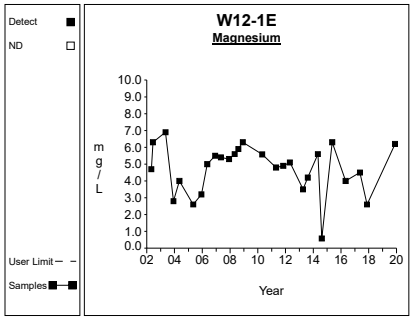
Graph 110



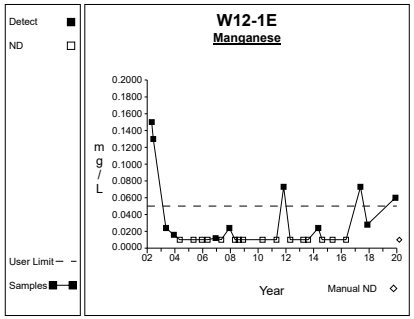
Graph 111



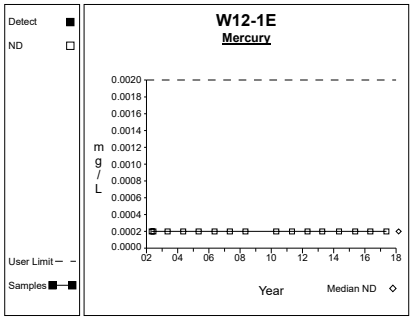
Graph 112



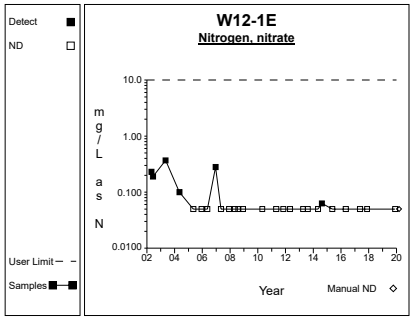
Graph 113



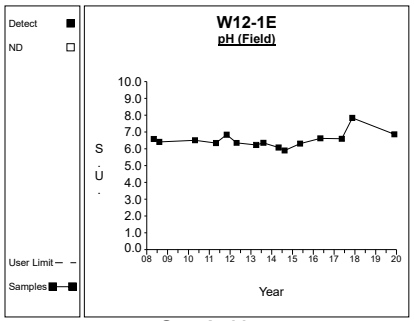
Graph 114



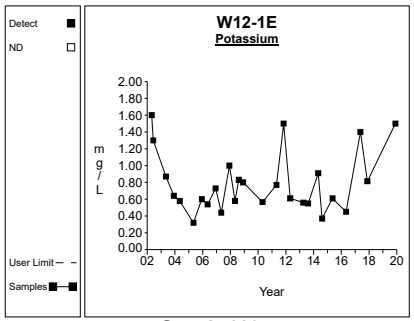
Graph 115



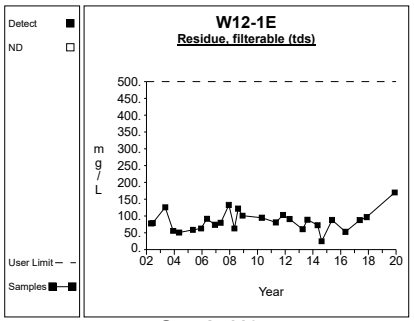
Graph 116



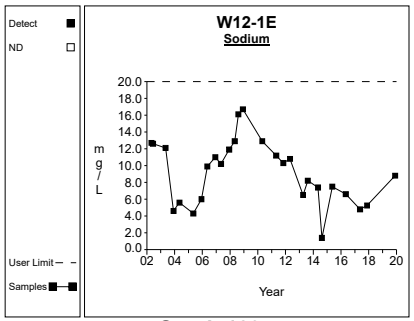
Graph 117



Graph 118

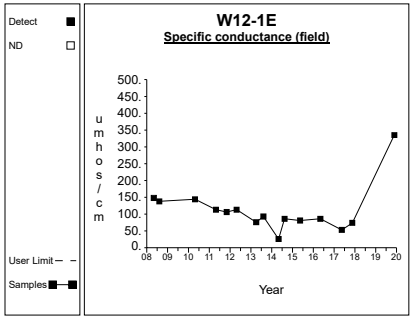


Graph 119

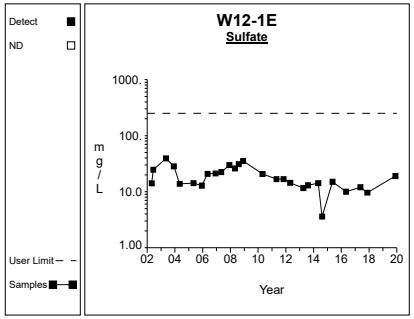


Graph 120

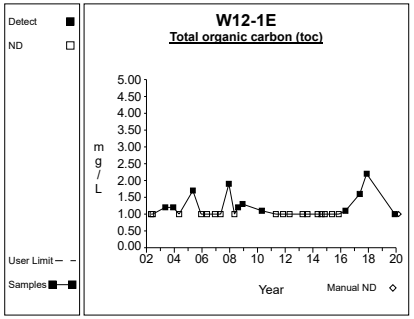
Time Series



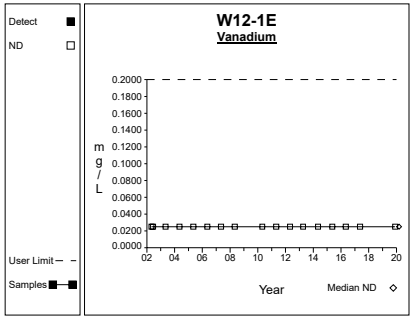
Graph 121



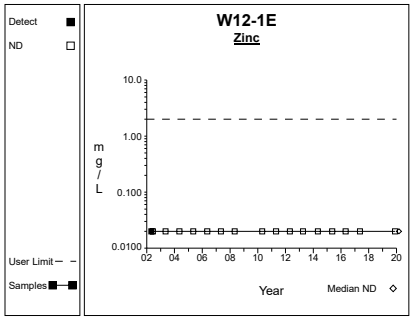
Graph 122



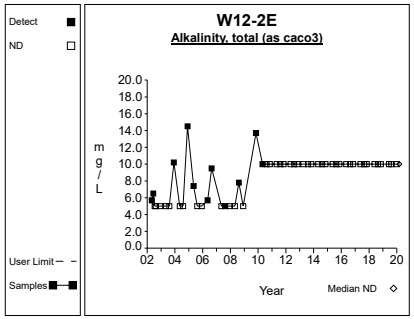
Graph 123



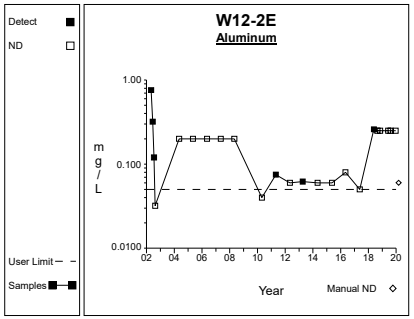
Graph 124



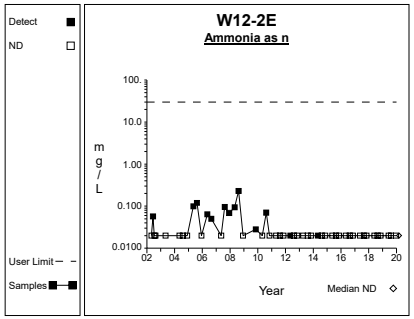
Graph 125



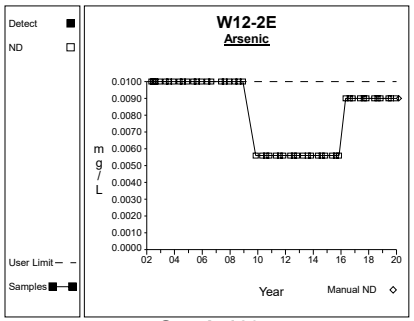
Graph 126



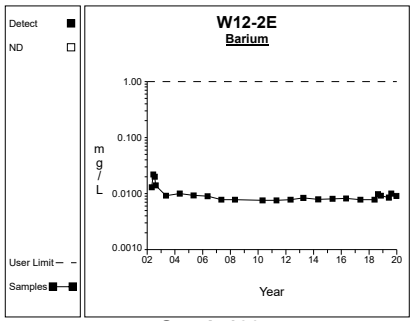
Graph 127



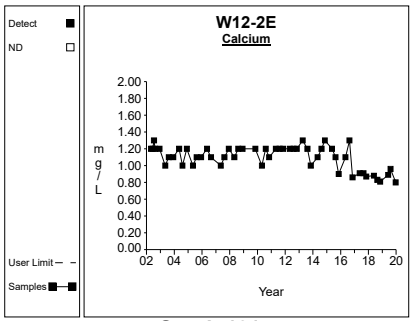
Graph 128



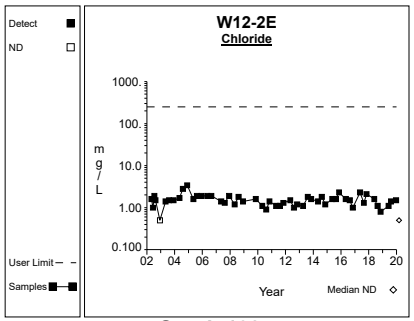
Graph 129



Graph 130

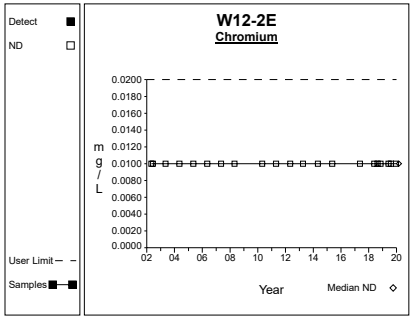


Graph 131

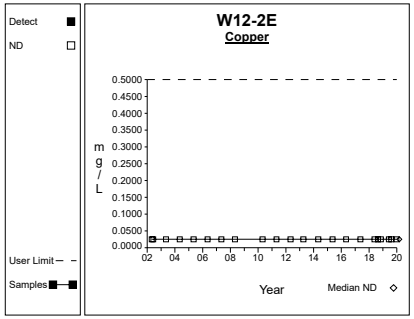


Graph 132

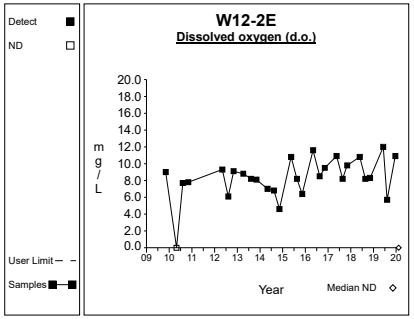
Time Series



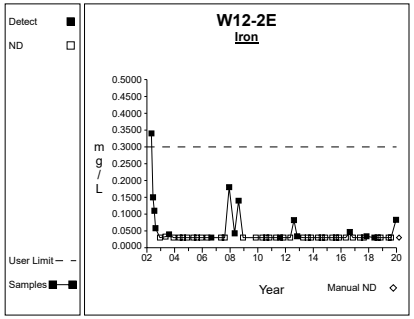
Graph 133



Graph 134



Graph 135



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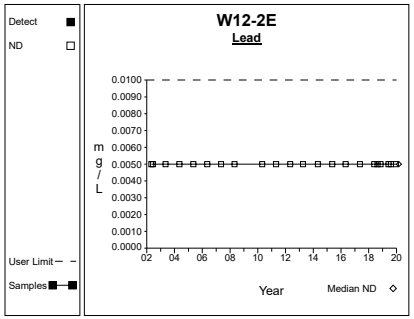
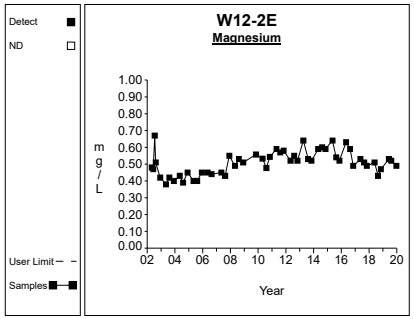
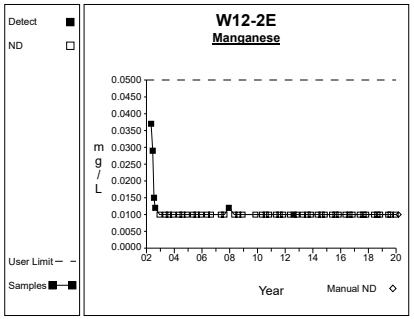


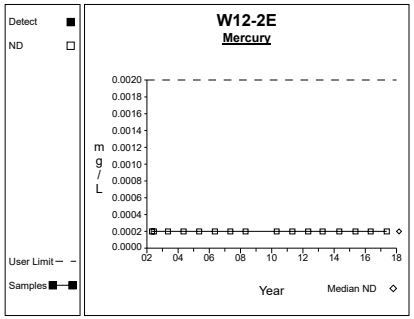
Graph 137



Graph 138



Graph 139



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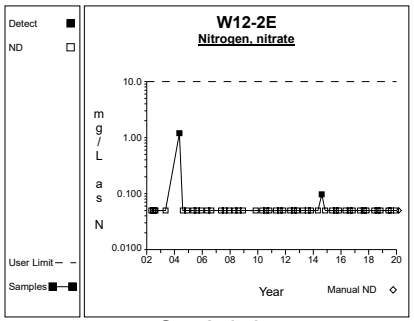
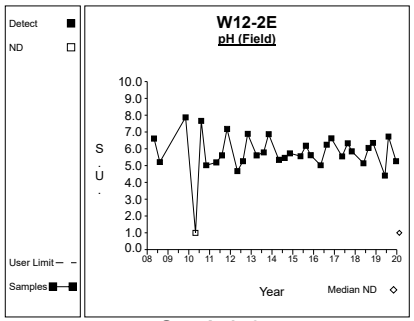
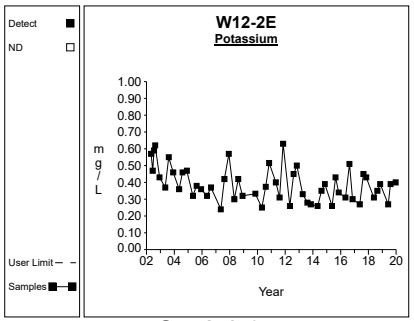


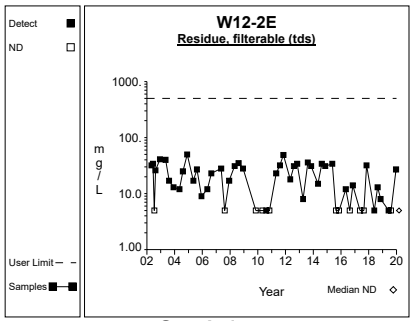
Graph 141



Graph 142

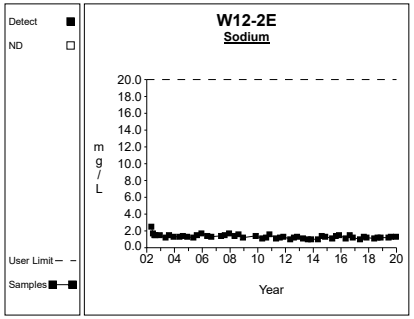


Graph 143

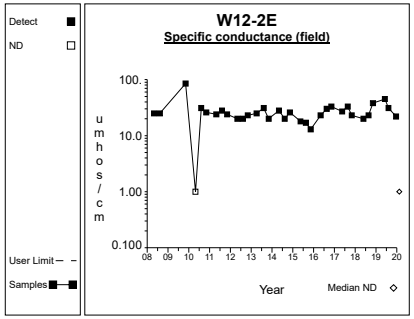


Graph 144

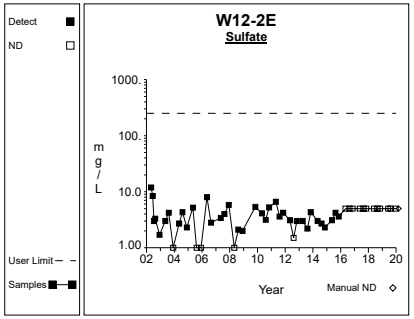
Time Series



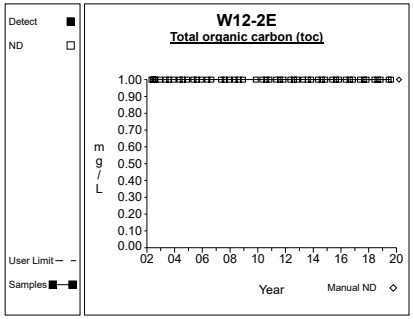
Graph 145



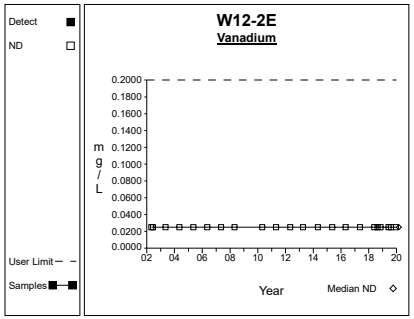
Graph 146



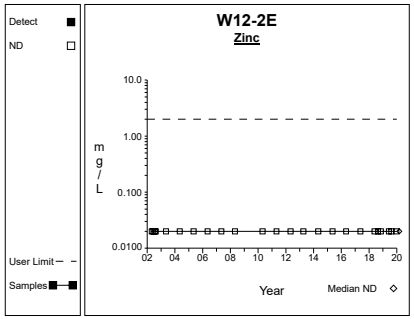
Graph 147



Graph 148



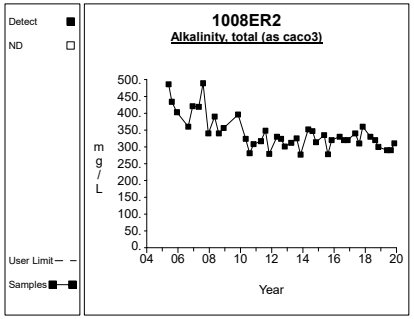
Graph 149



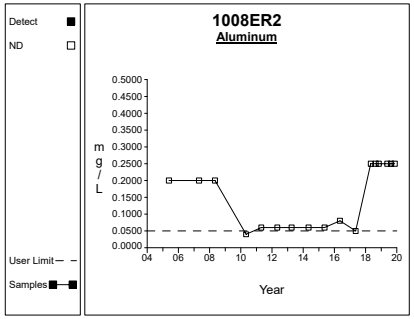
Graph 150

Downgradient Wells – Phreatic Zone

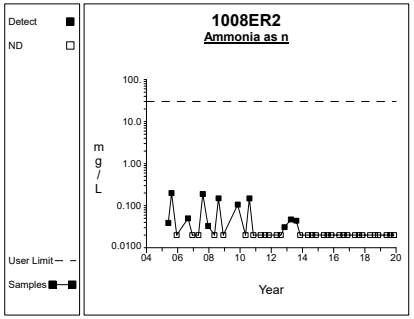
Time Series



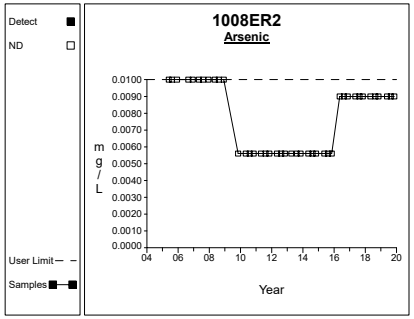
Graph 1



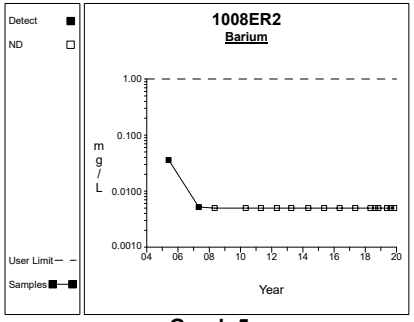
Graph 2



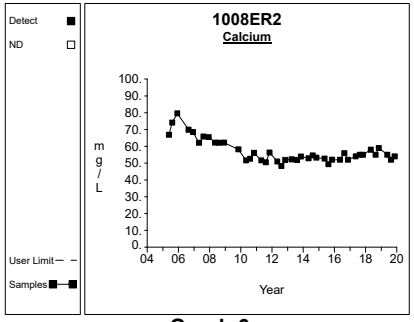
Graph 3



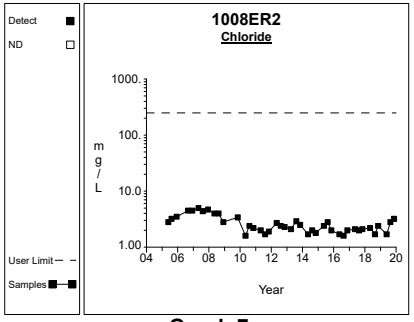
Graph 4



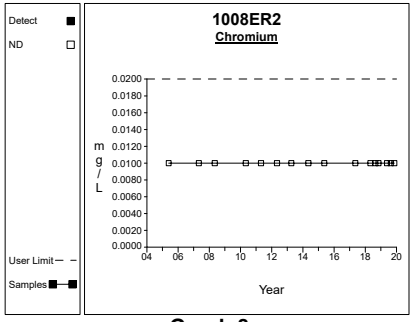
Graph 5



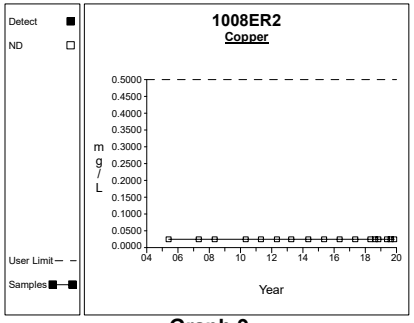
Graph 6



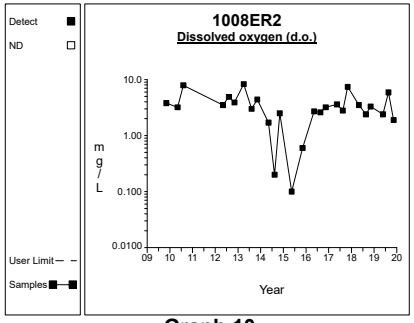
Graph 7



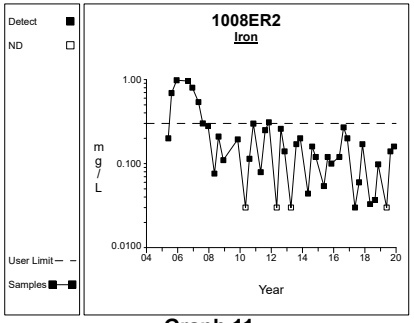
Graph 8



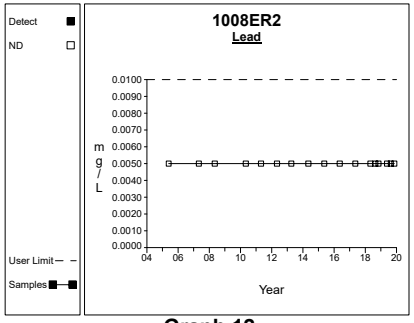
Graph 9



Graph 10

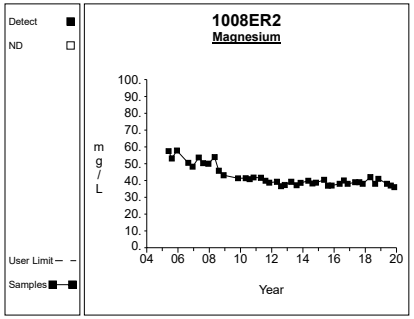


Graph 11

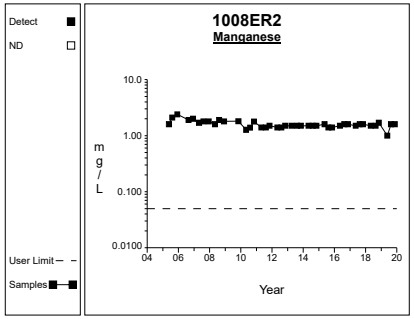


Graph 12

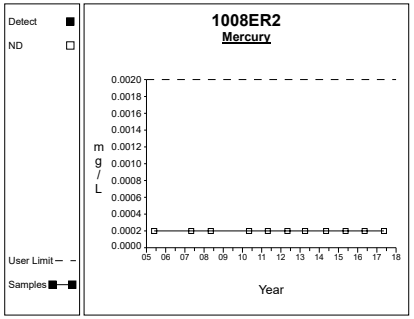
Time Series



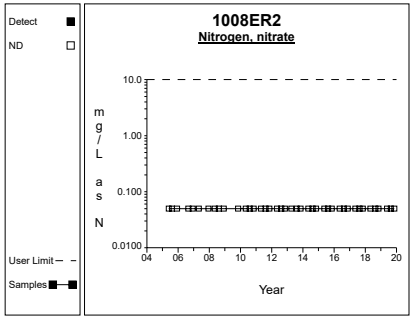
Graph 13



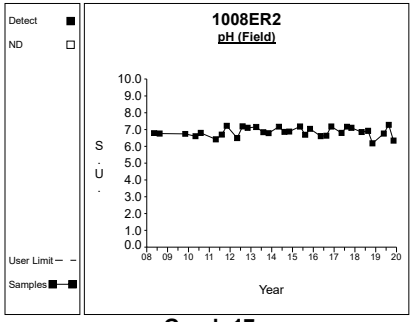
Graph 14



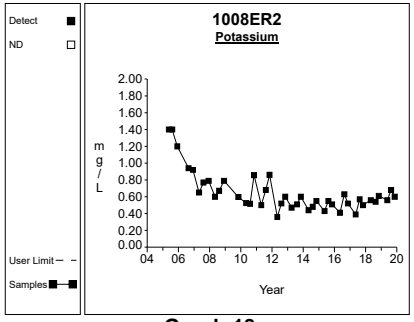
Graph 15



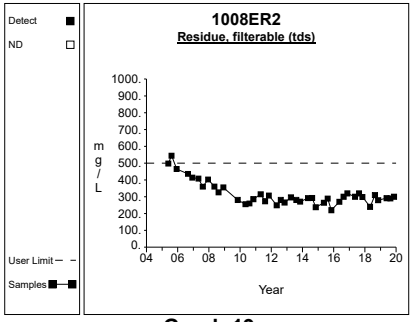
Graph 16



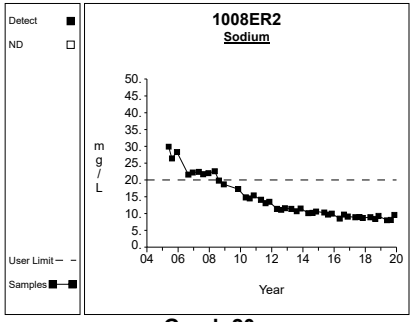
Graph 17



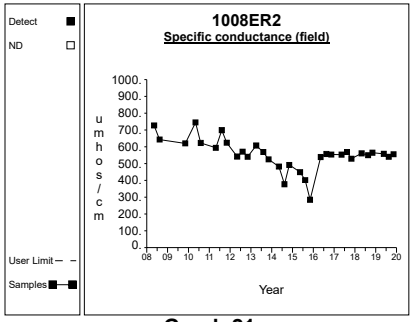
Graph 18



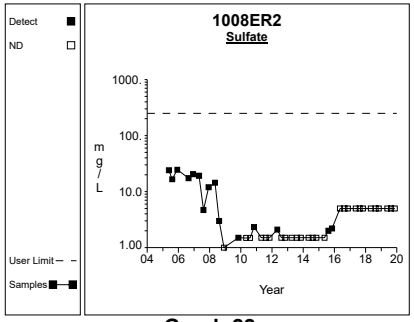
Graph 19



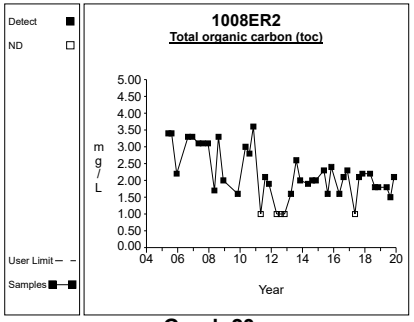
Graph 20



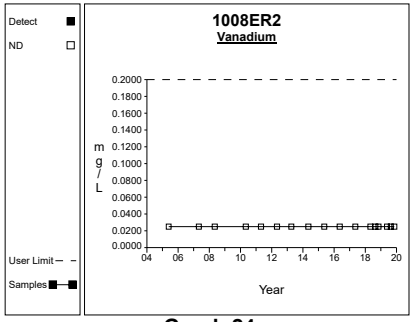
Graph 21



Graph 22

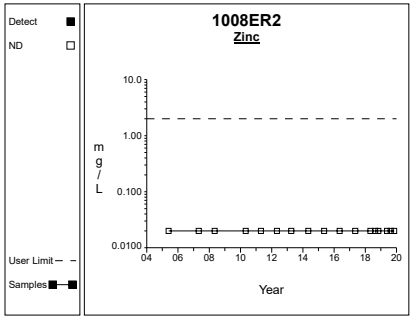


Graph 23

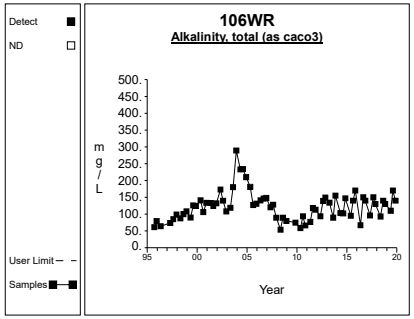


Graph 24

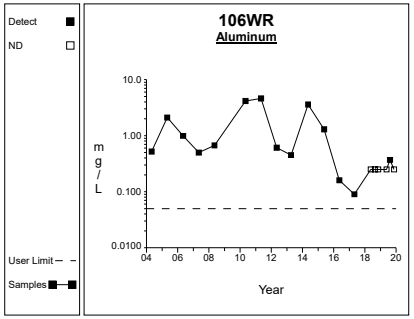
Time Series



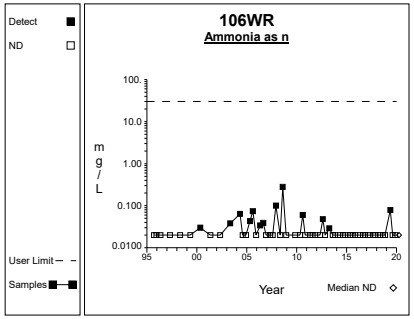
Graph 25



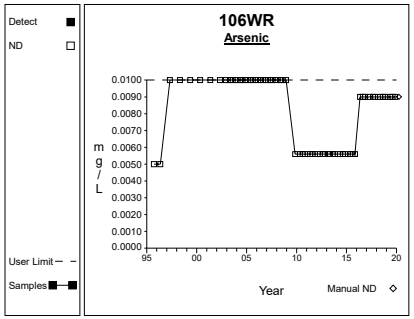
Graph 26



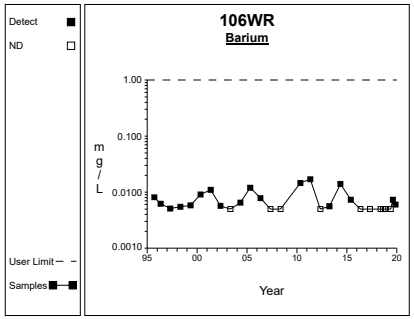
Graph 27



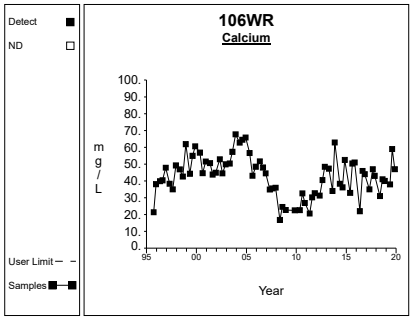
Graph 28



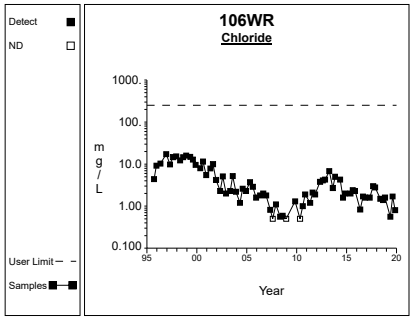
Graph 29



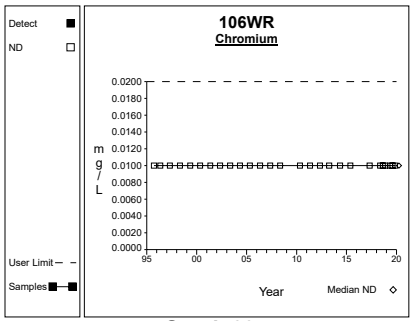
Graph 30



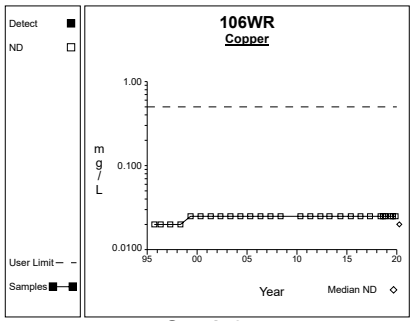
Graph 31



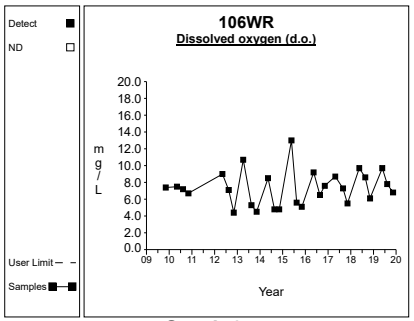
Graph 32



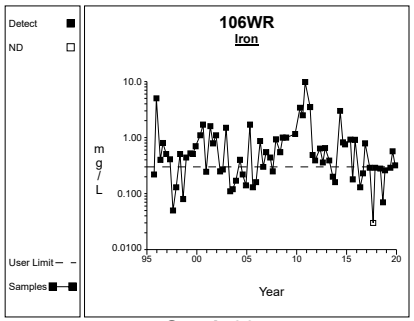
Graph 33



Graph 34

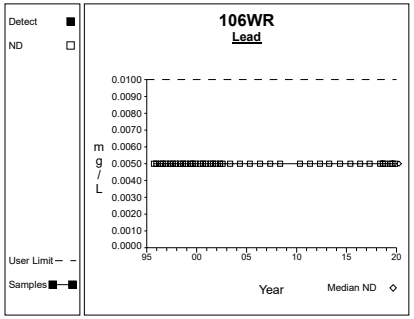


Graph 35

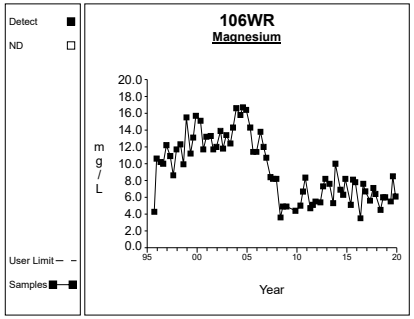


Graph 36

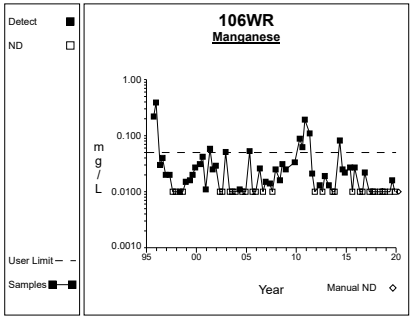
Time Series



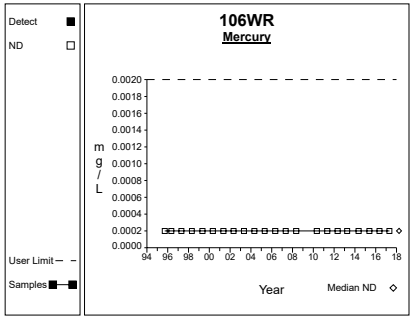
Graph 37



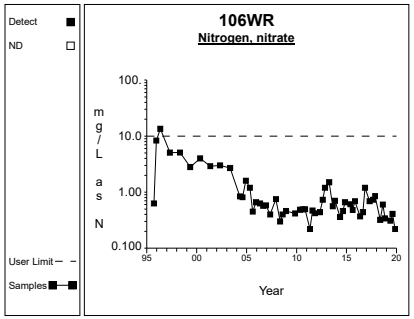
Graph 38



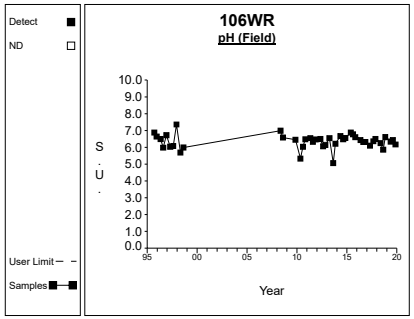
Graph 39



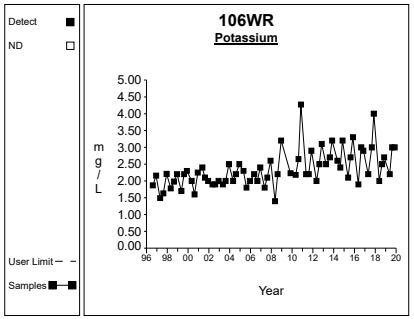
Graph 40



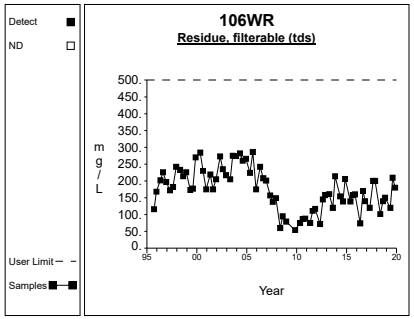
Graph 41



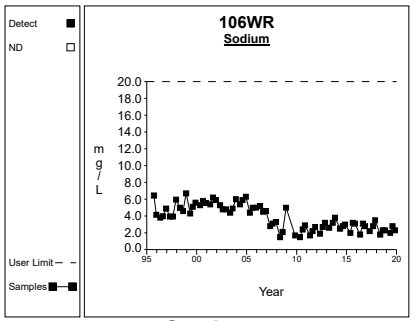
Graph 42



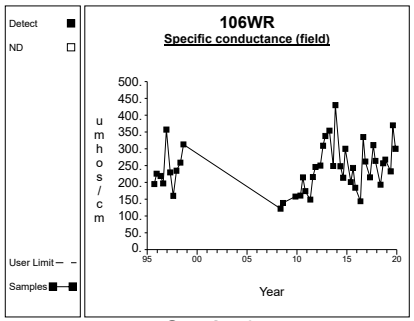
Graph 43



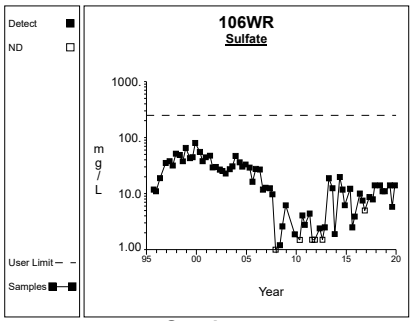
Graph 44



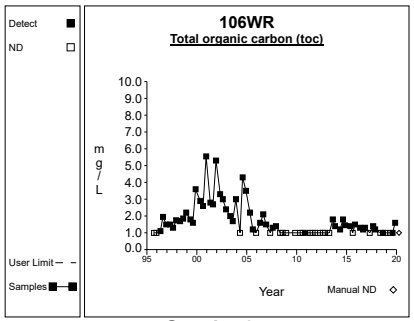
Graph 45



Graph 46

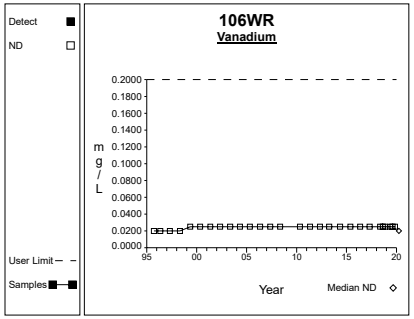


Graph 47

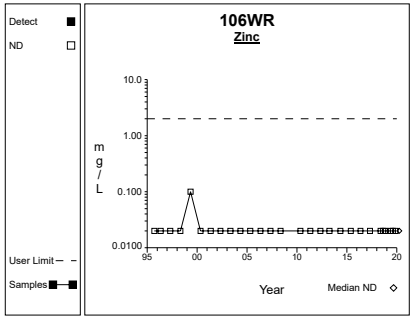


Graph 48

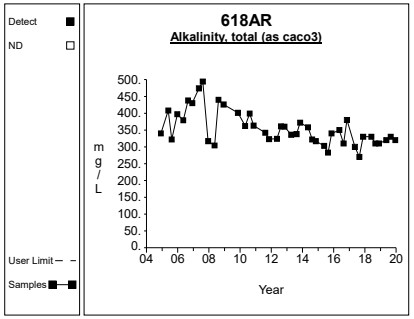
Time Series



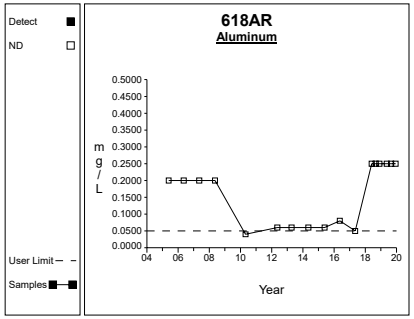
Graph 49



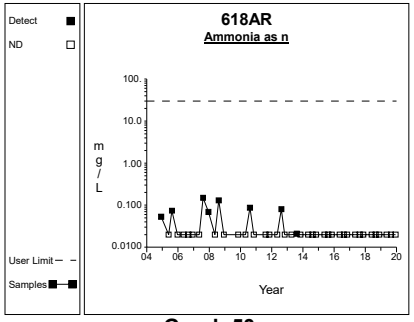
Graph 50



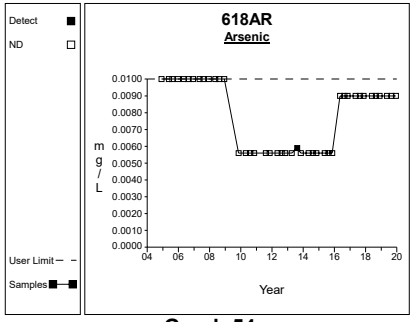
Graph 51



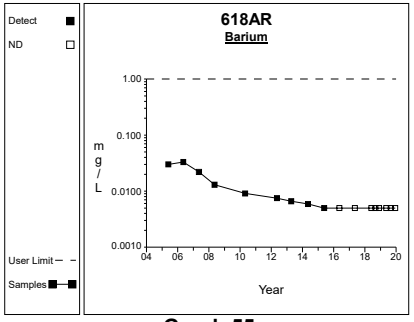
Graph 52



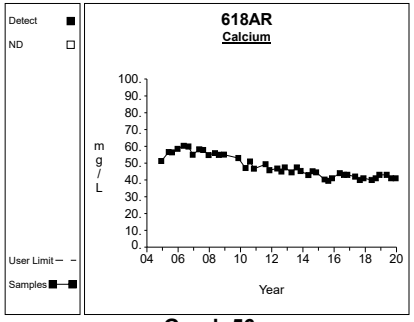
Graph 53



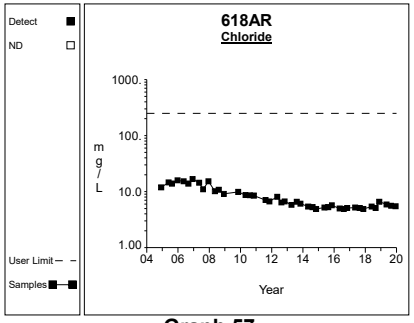
Graph 54



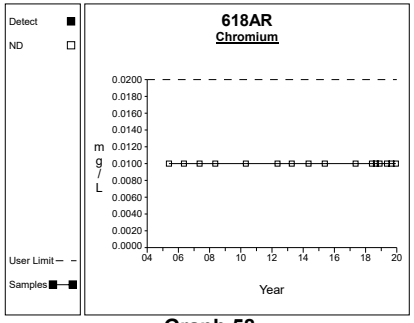
Graph 55



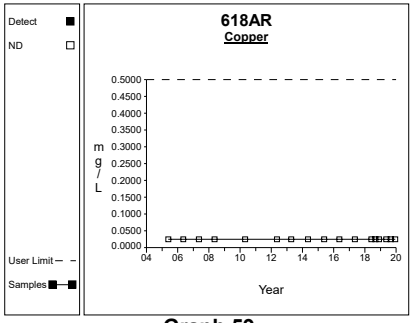
Graph 56



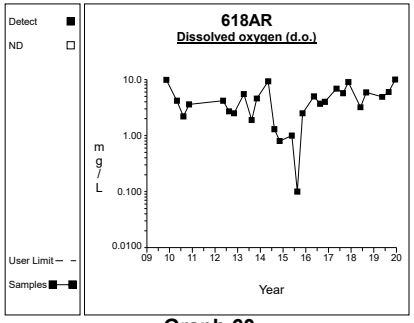
Graph 57



Graph 58

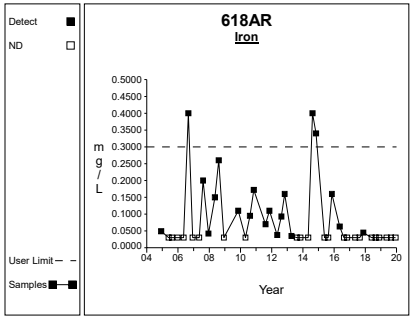


Graph 59

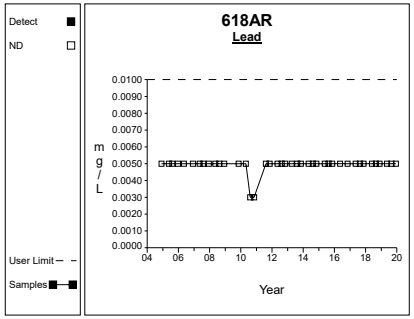


Graph 60

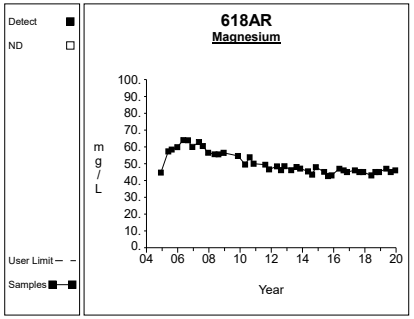
Time Series



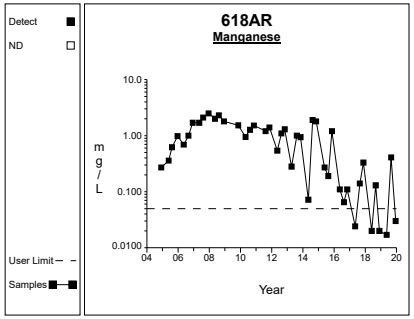
Graph 61



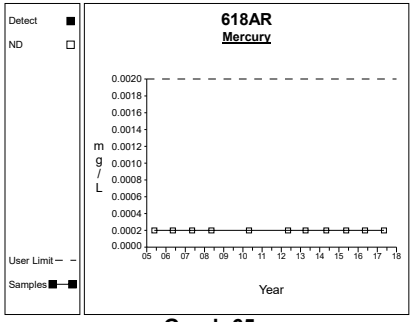
Graph 62



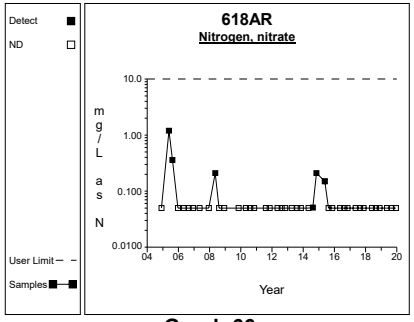
Graph 63



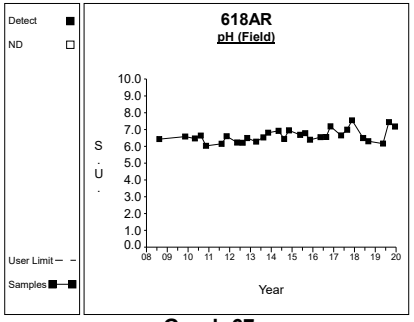
Graph 64



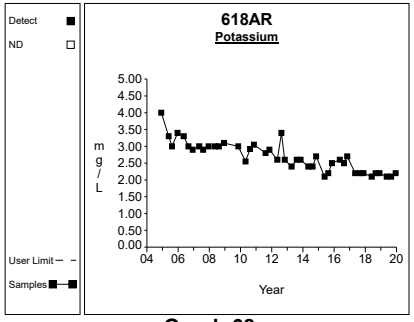
Graph 65



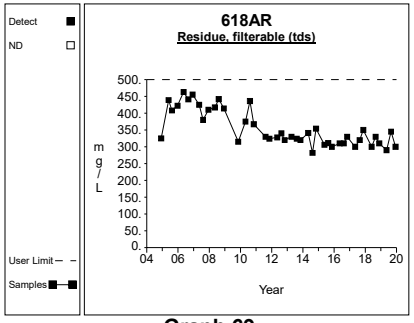
Graph 66



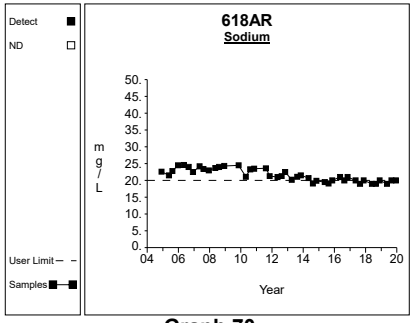
Graph 67



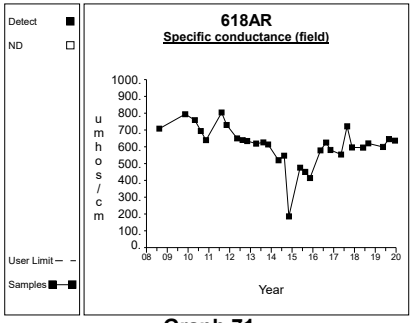
Graph 68



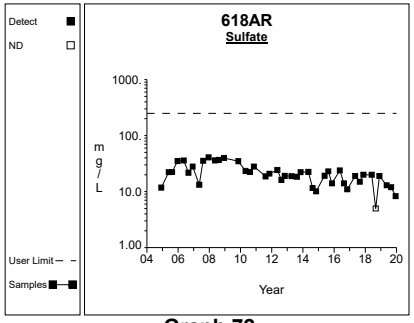
Graph 69



Graph 70

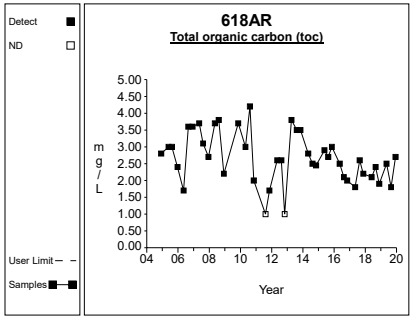


Graph 71

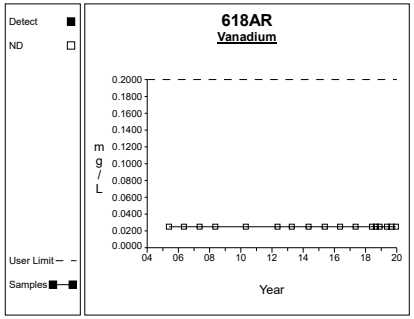


Graph 72

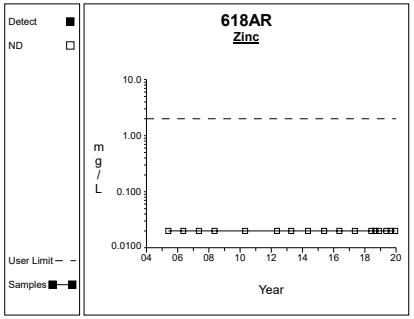
Time Series



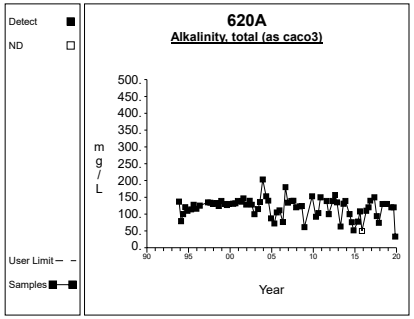
Graph 73



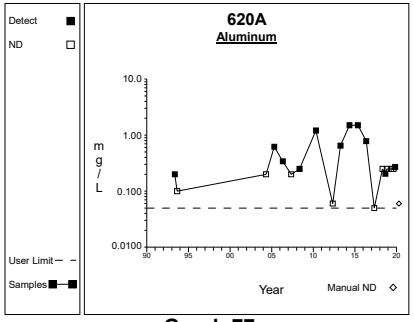
Graph 74



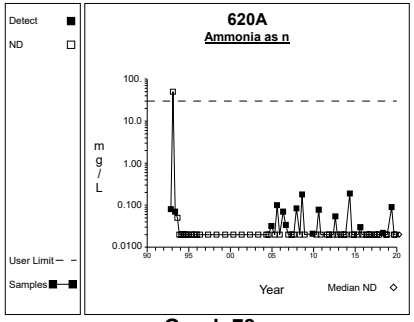
Graph 75



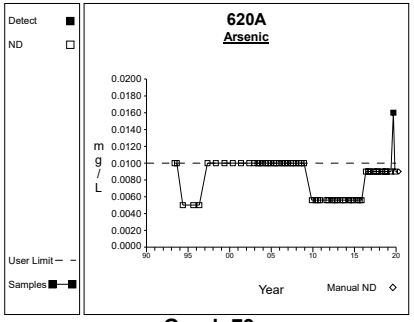
Graph 76



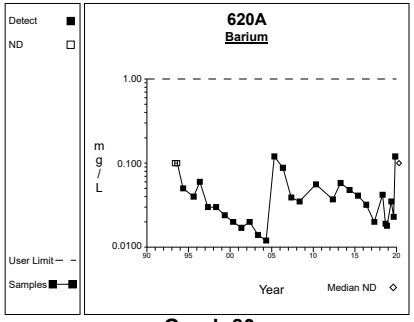
Graph 77



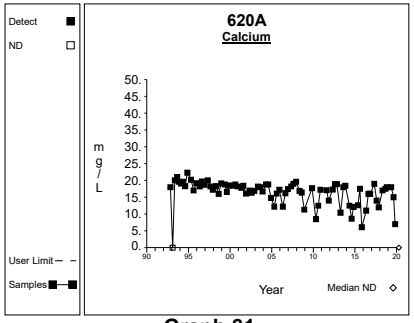
Graph 78



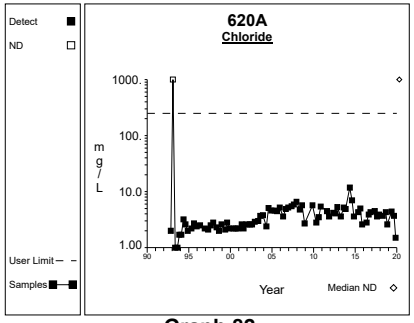
Graph 79



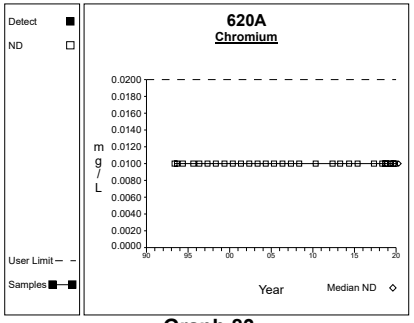
Graph 80



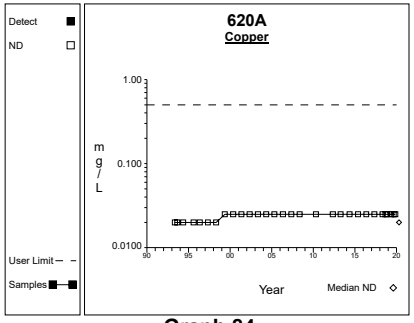
Graph 81



Graph 82

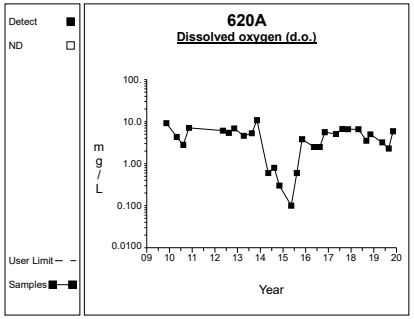


Graph 83

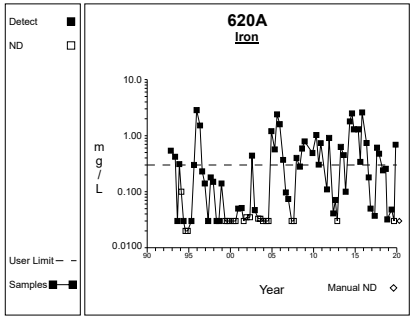


Graph 84

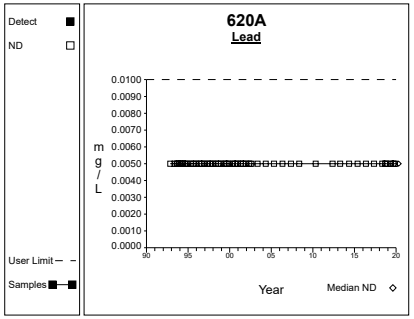
Time Series



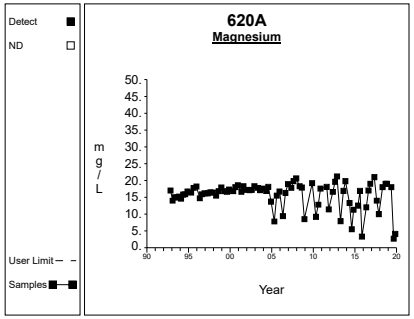
Graph 85



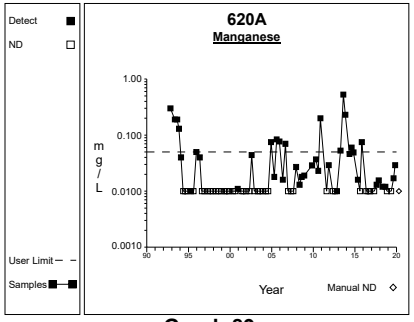
Graph 86



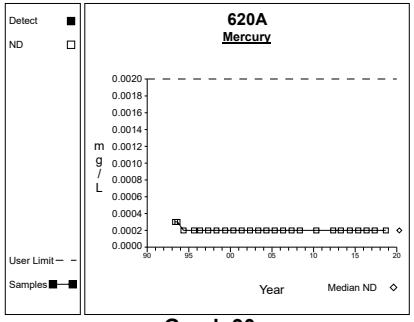
Graph 87



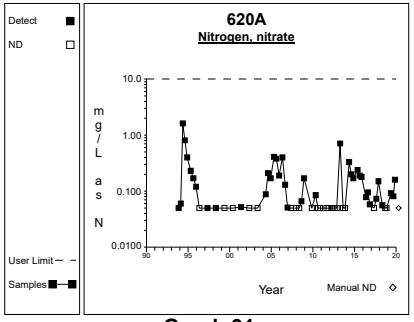
Graph 88



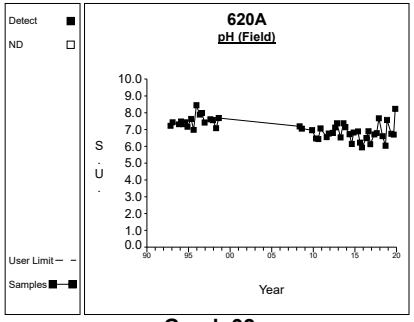
Graph 89



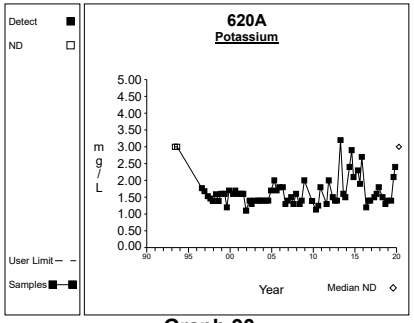
Graph 90



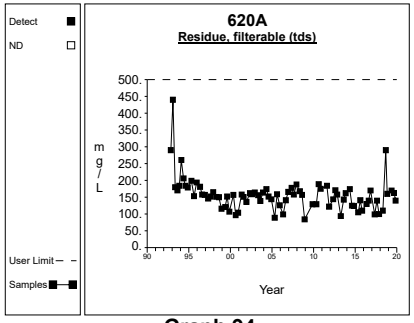
Graph 91



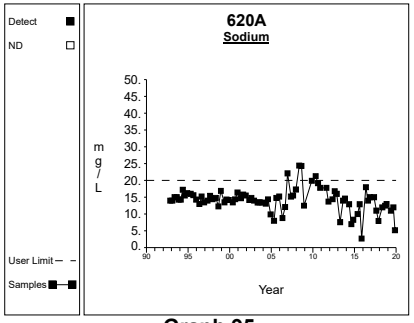
Graph 92



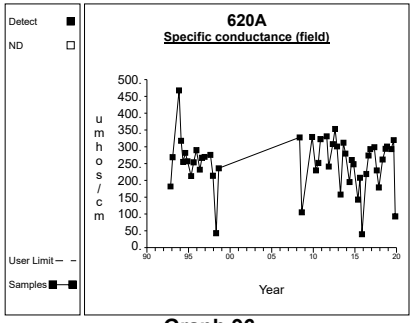
Graph 93



Graph 94

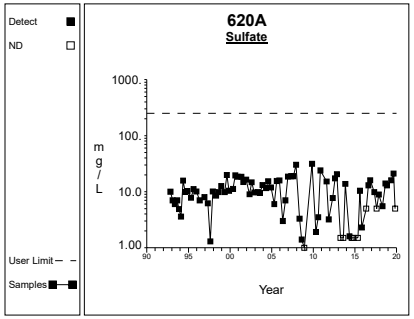


Graph 95

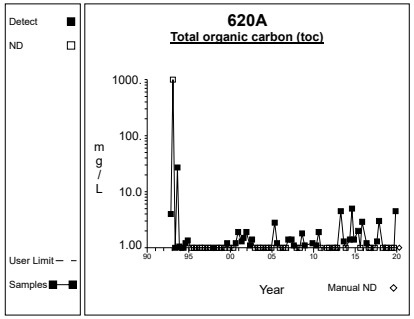


Graph 96

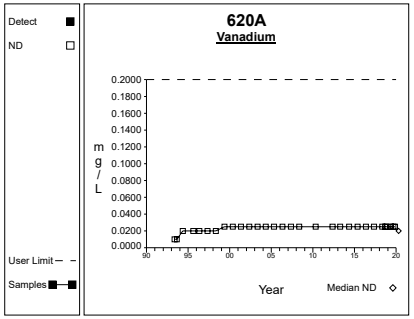
Time Series



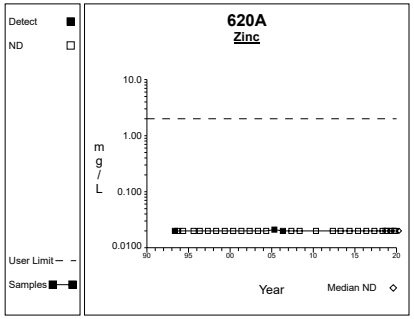
Graph 97



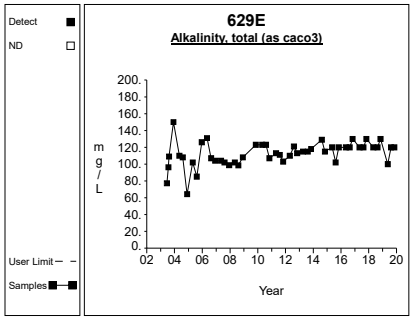
Graph 98



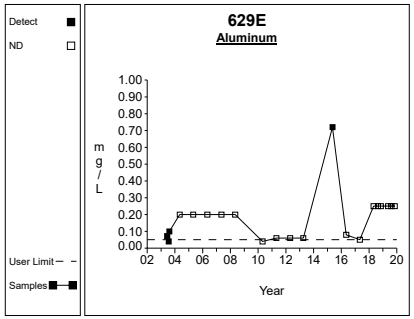
Graph 99



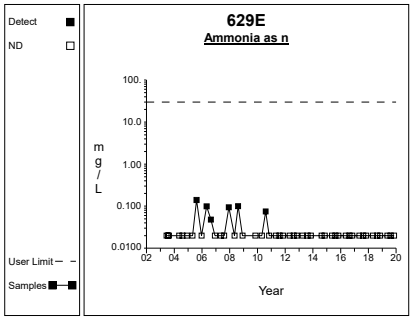
Graph 100



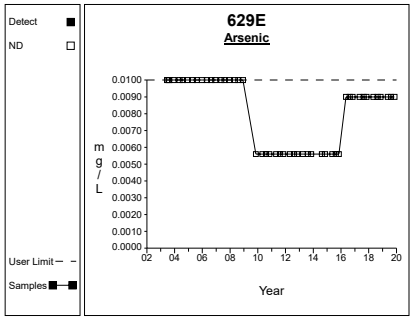
Graph 101



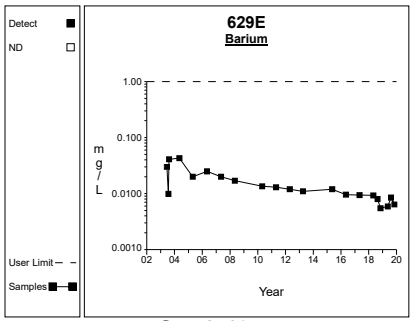
Graph 102



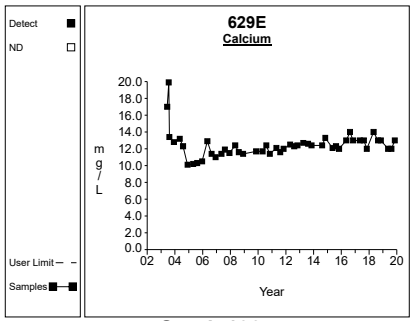
Graph 103



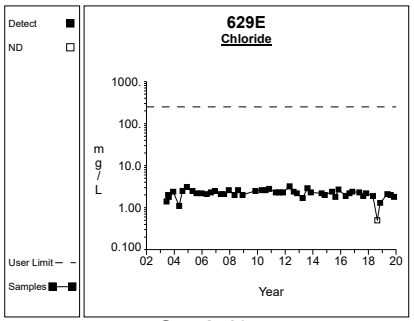
Graph 104



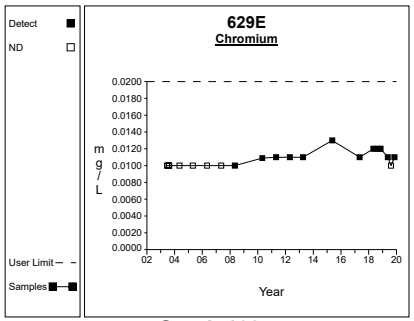
Graph 105



Graph 106

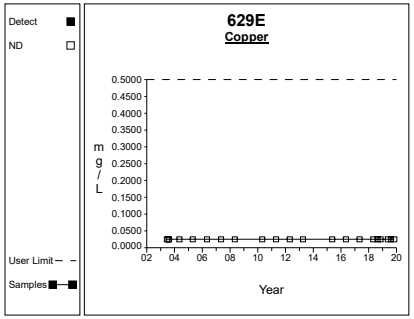


Graph 107

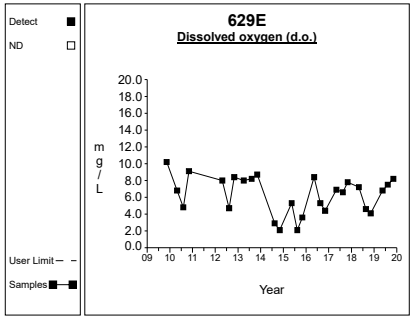


Graph 108

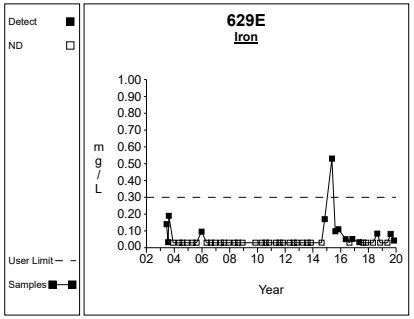
Time Series



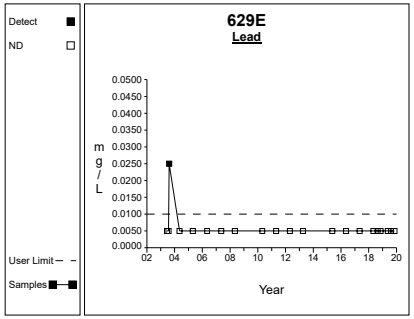
Graph 109



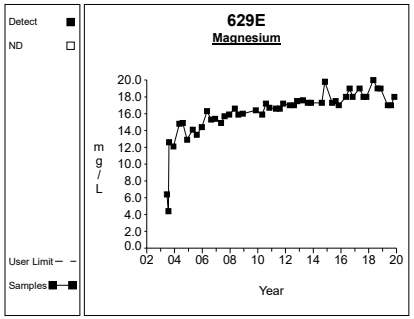
Graph 110



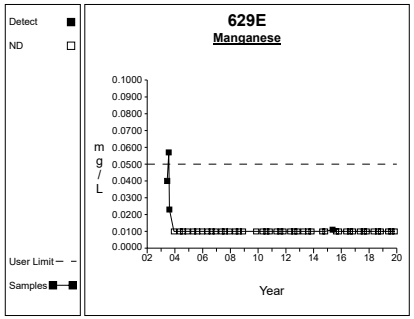
Graph 111



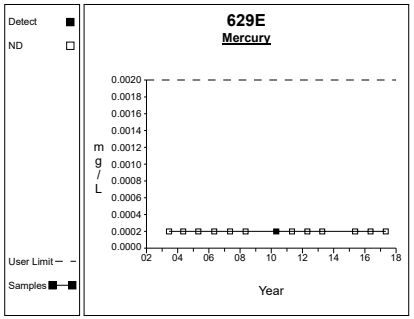
Graph 112



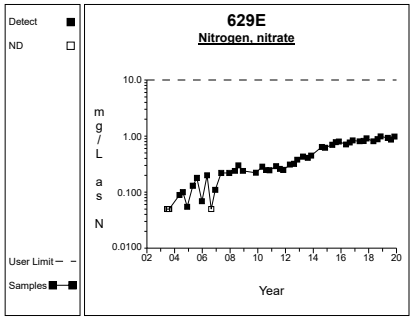
Graph 113



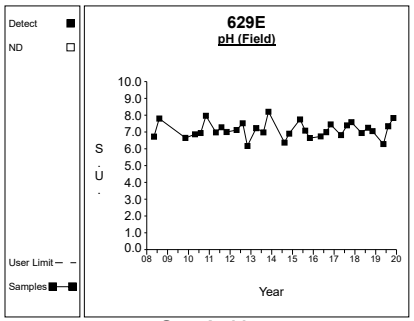
Graph 114



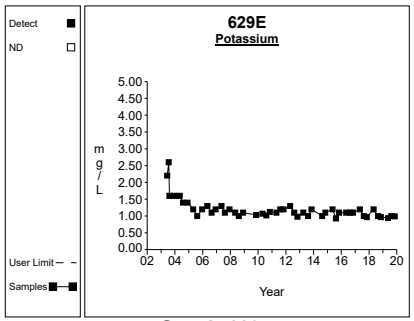
Graph 115



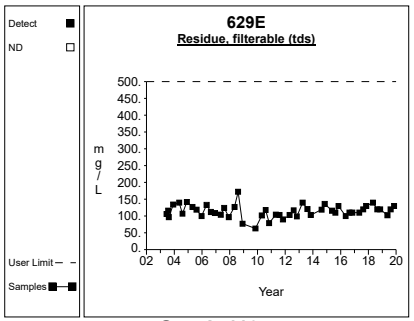
Graph 116



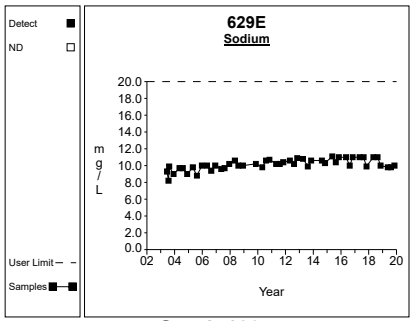
Graph 117



Graph 118

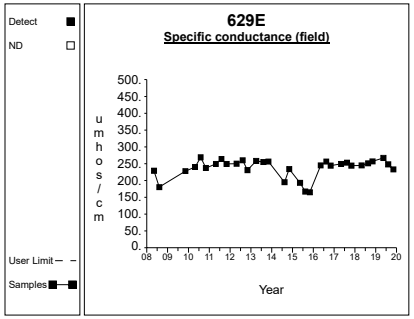


Graph 119

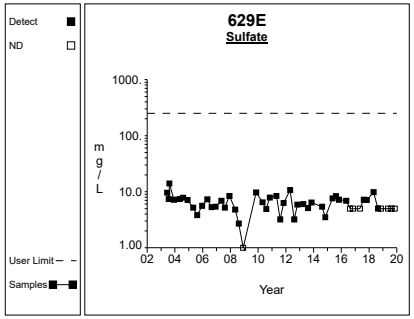


Graph 120

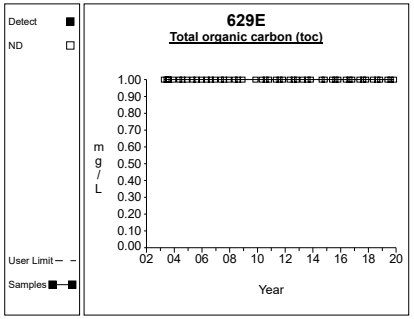
Time Series



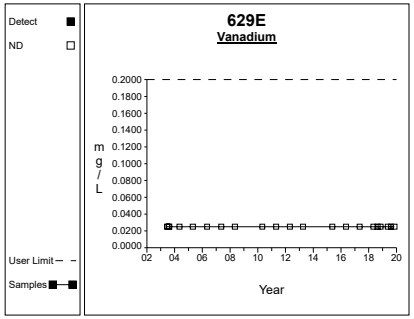
Graph 121



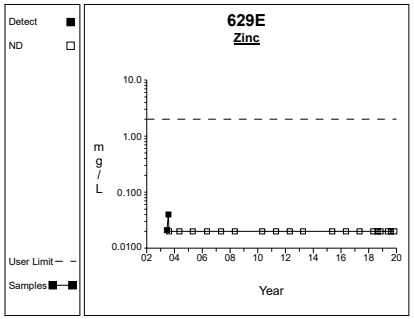
Graph 122



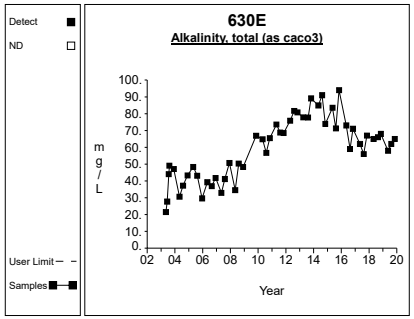
Graph 123



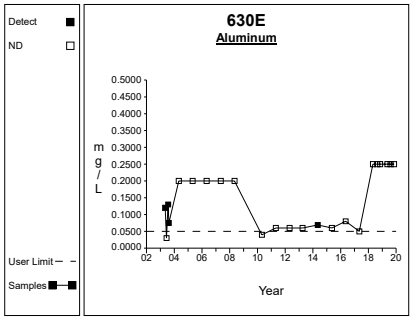
Graph 124



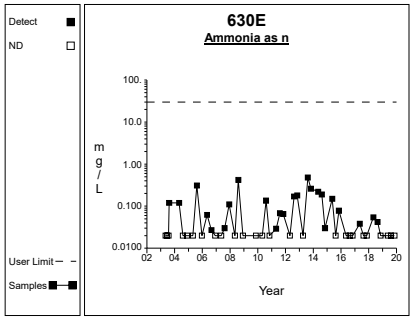
Graph 125



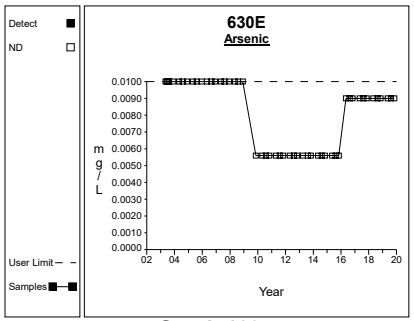
Graph 126



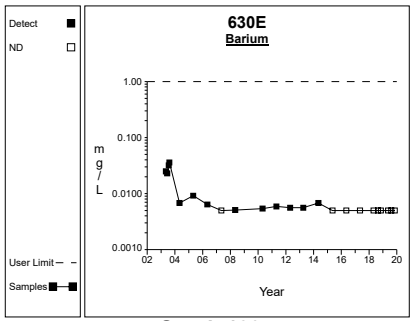
Graph 127



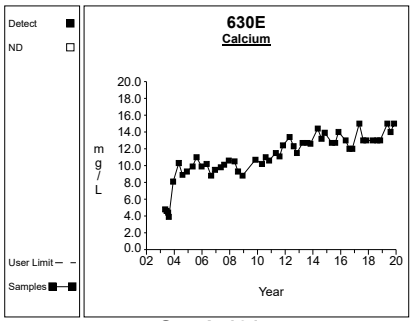
Graph 128



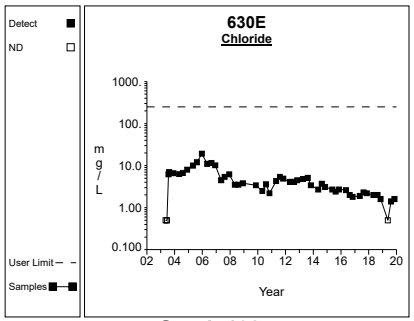
Graph 129



Graph 130

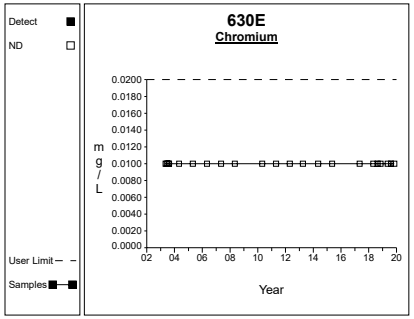


Graph 131

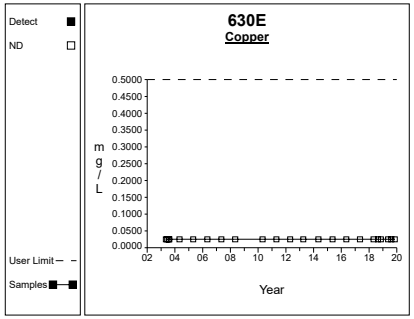


Graph 132

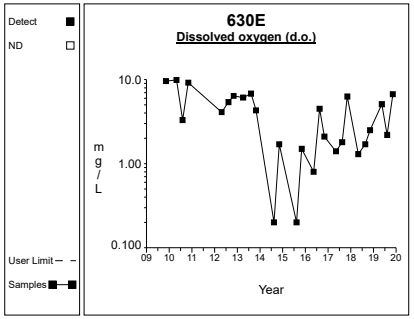
Time Series



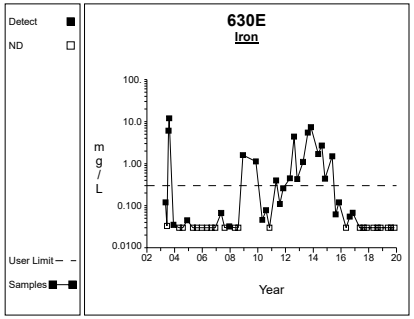
Graph 133



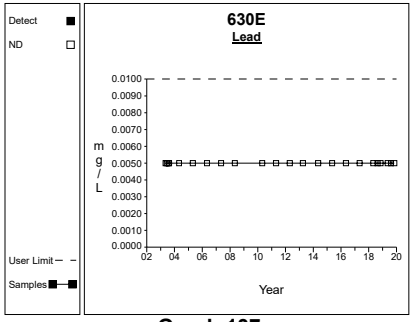
Graph 134



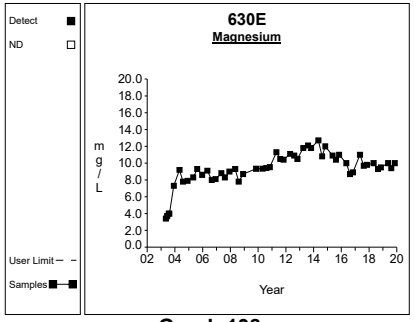
Graph 135



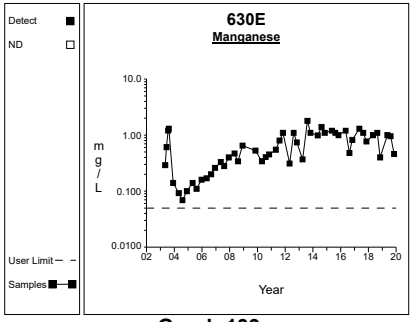
Graph 136



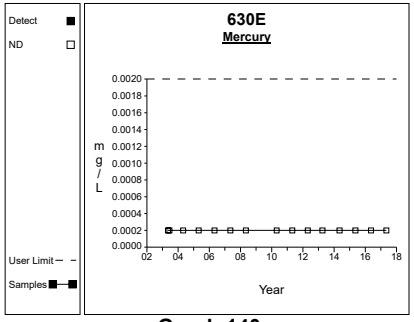
Graph 137



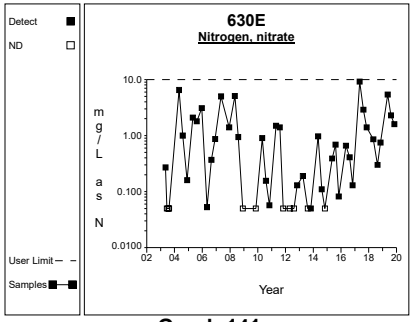
Graph 138



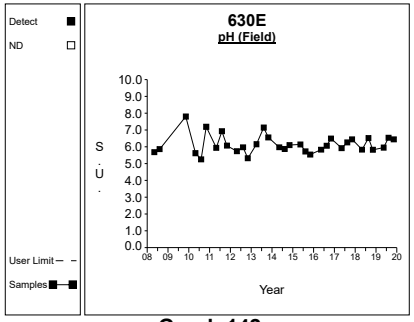
Graph 139



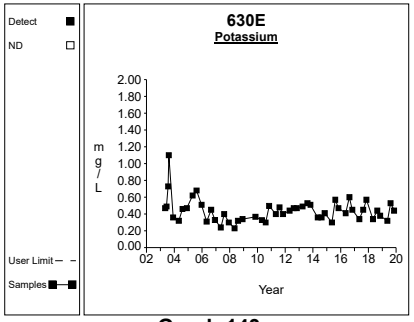
Graph 140



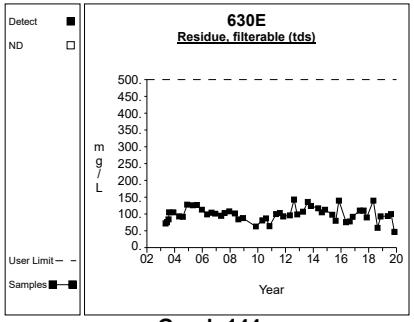
Graph 141



Graph 142

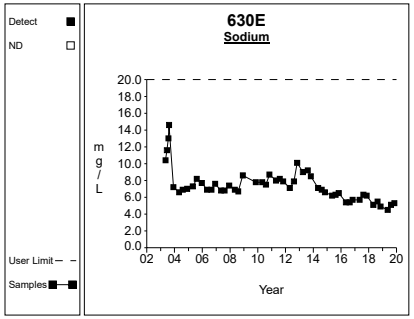


Graph 143

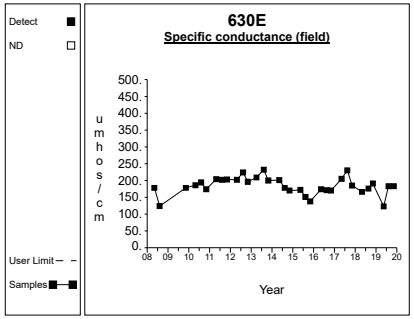


Graph 144

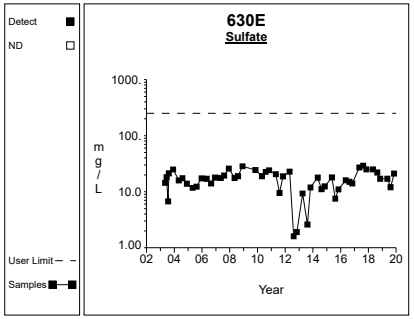
Time Series



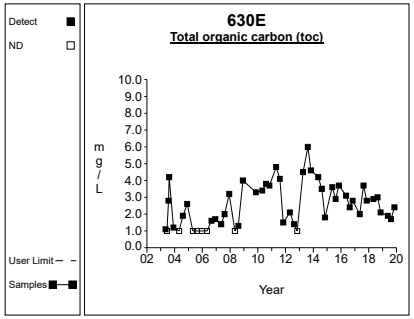
Graph 145



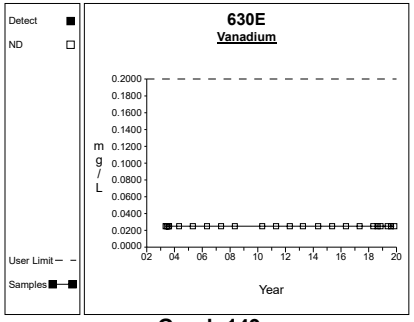
Graph 146



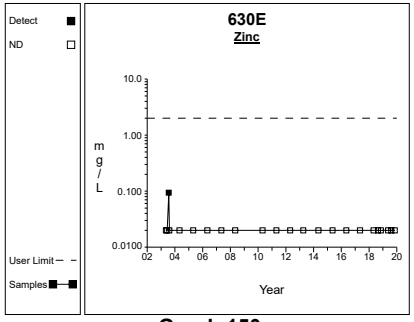
Graph 147



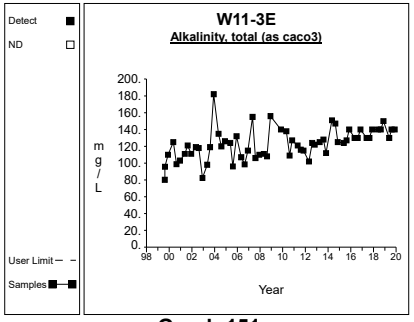
Graph 148



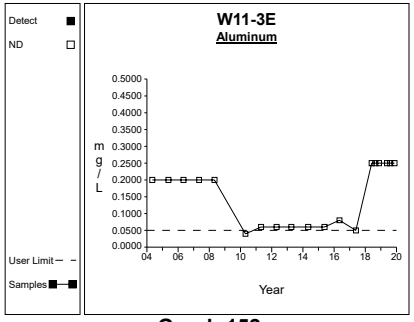
Graph 149



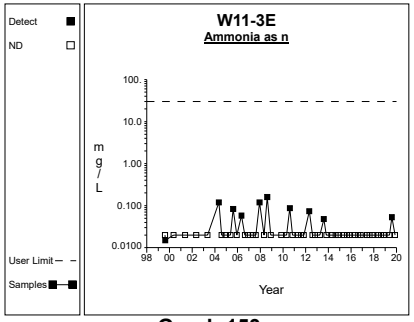
Graph 150



Graph 151



Graph 152



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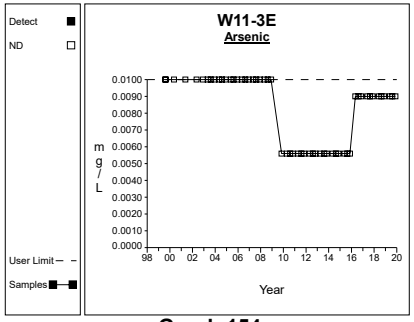
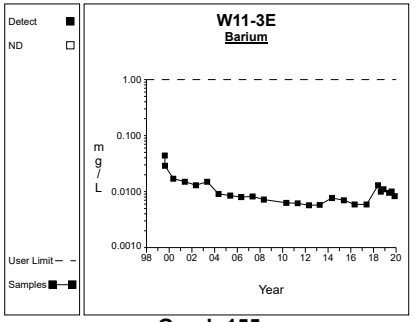
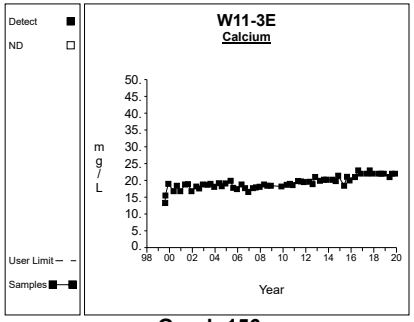


Graph 154

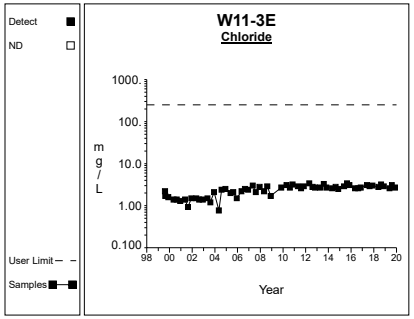


Graph 155

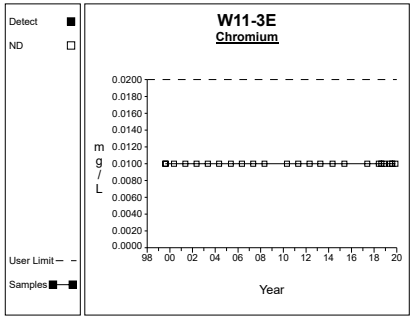


Graph 156

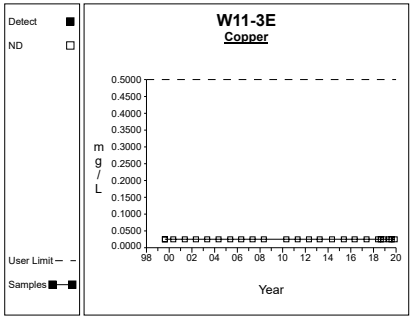
Time Series



Graph 157



Graph 158



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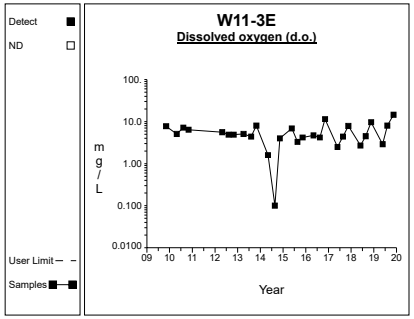

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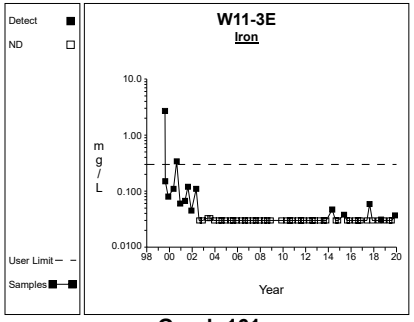
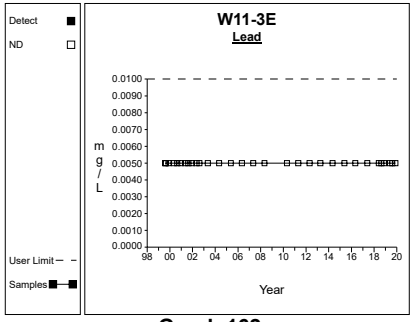


Graph 161



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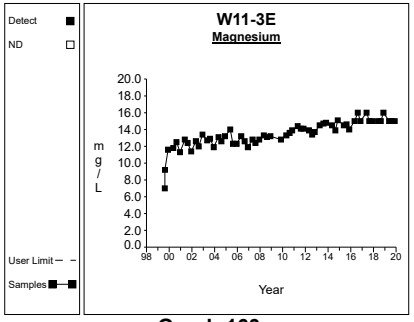
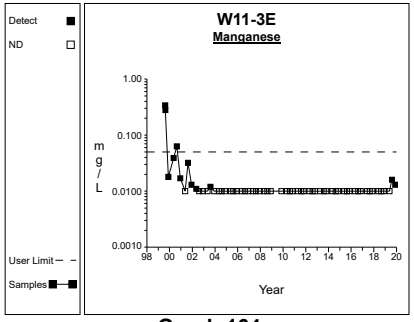


Graph 163



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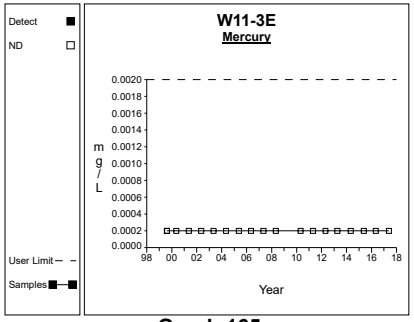

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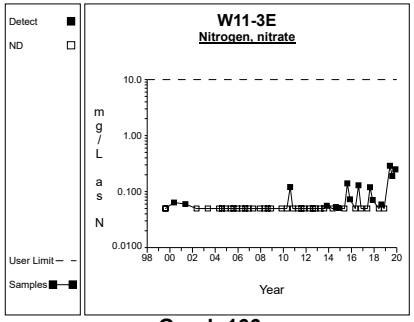
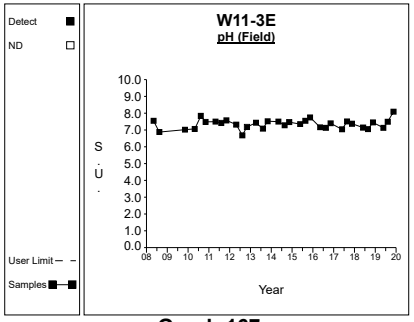
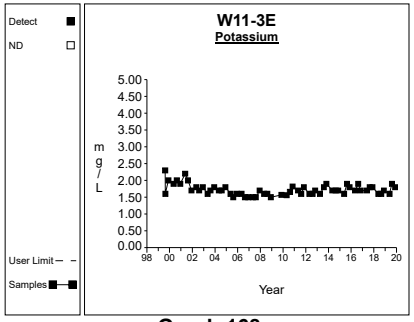


Graph 166

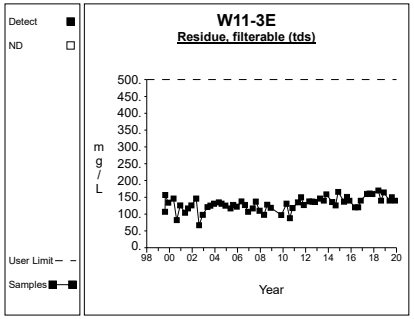


Graph 167

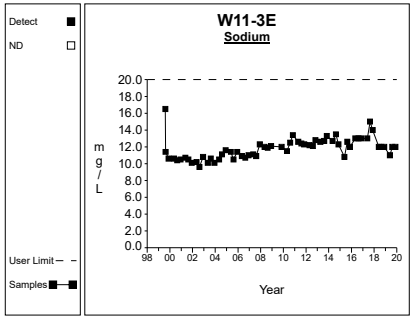


Graph 168

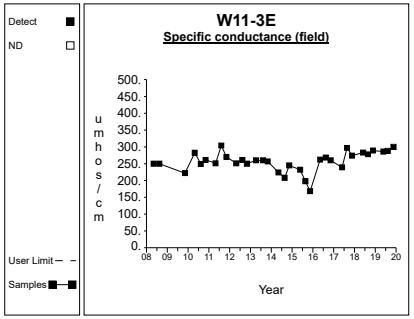
Time Series



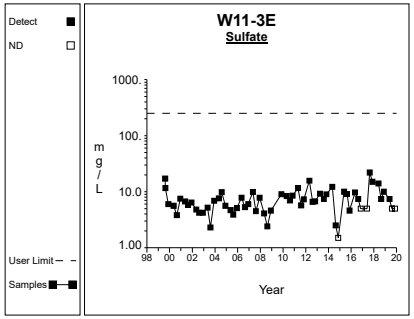
Graph 169



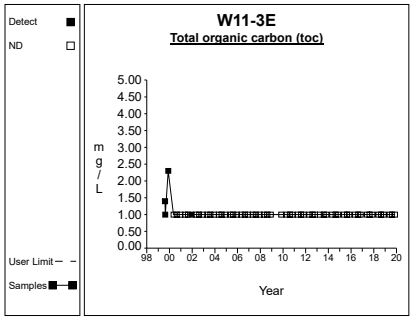
Graph 170



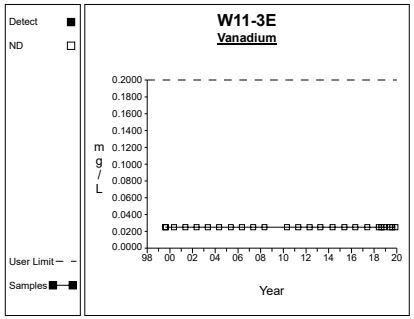
Graph 171



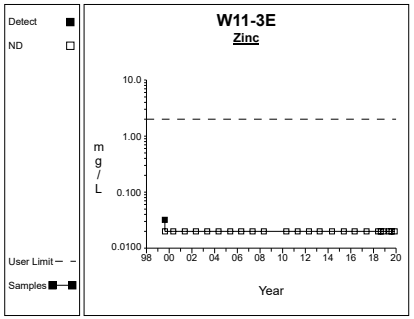
Graph 172



Graph 173



Graph 174



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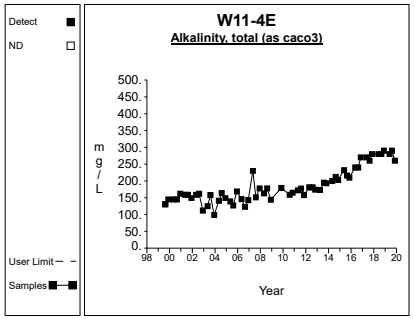
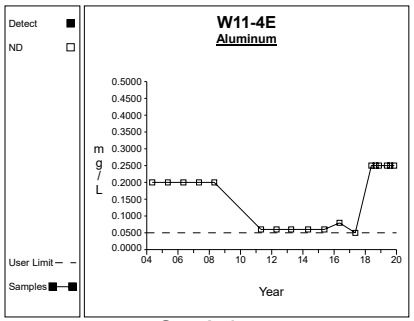


Graph 176



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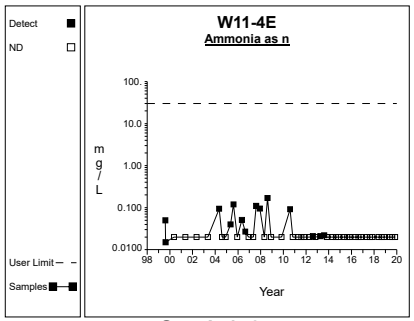
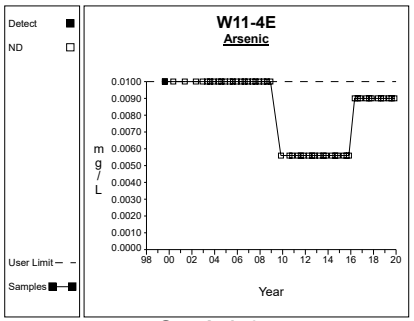
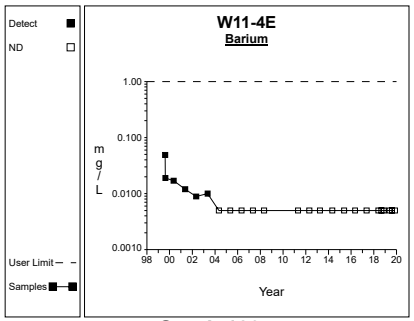


Graph 178

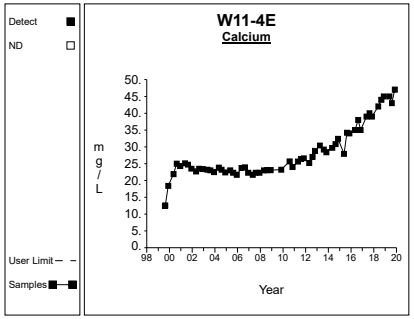


Graph 179

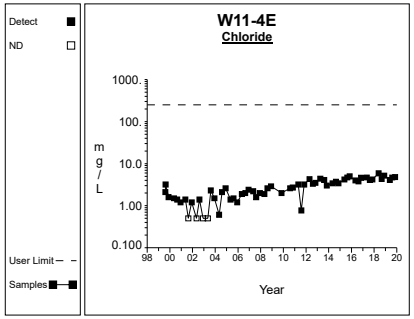


Graph 180

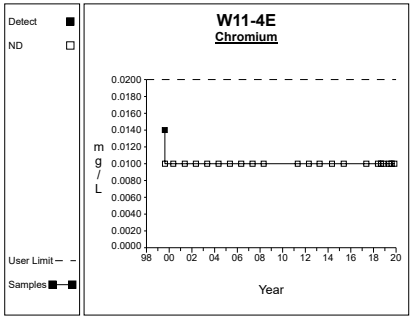
Time Series



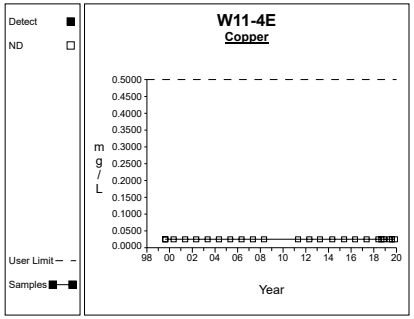
Graph 181



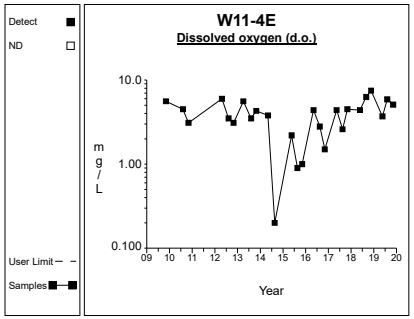
Graph 182



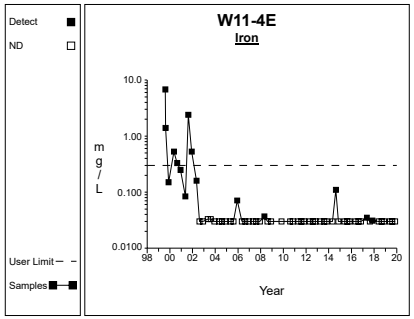
Graph 183



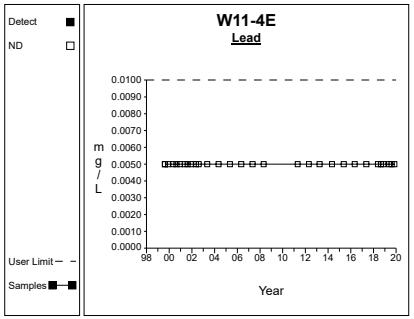
Graph 184



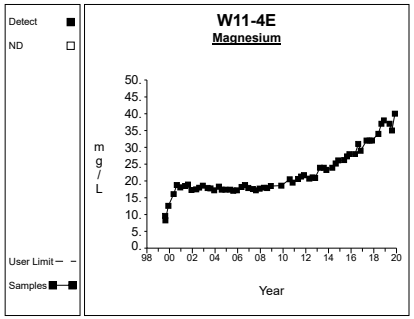
Graph 185



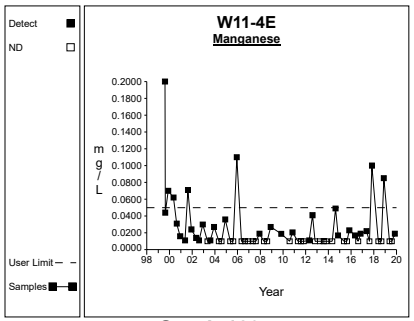
Graph 186



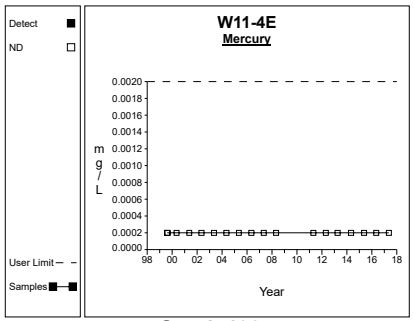
Graph 187



Graph 188



Graph 189



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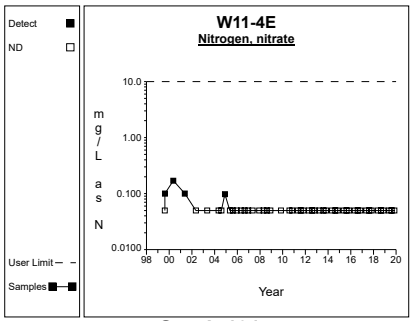
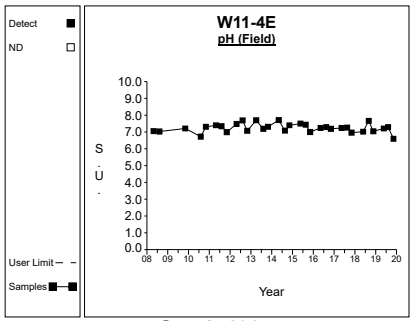
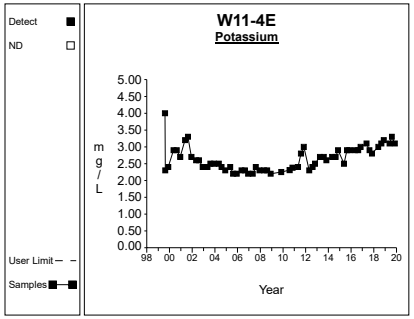


Graph 191

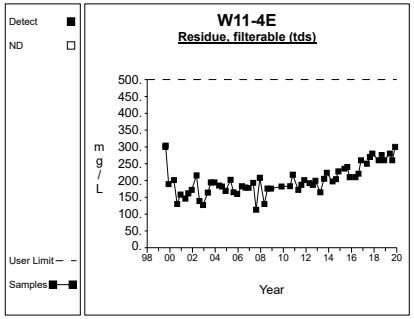


Graph 192

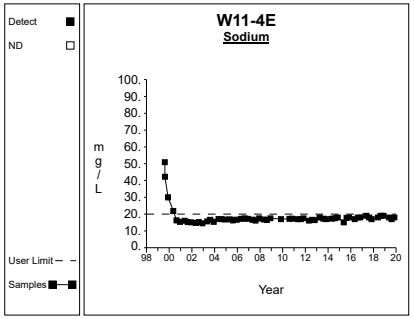
Time Series



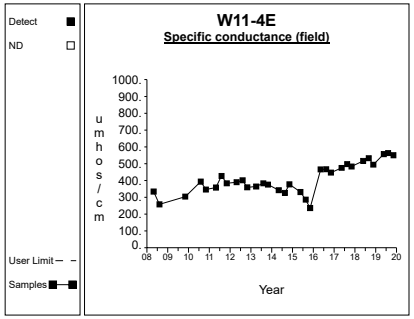
Graph 193



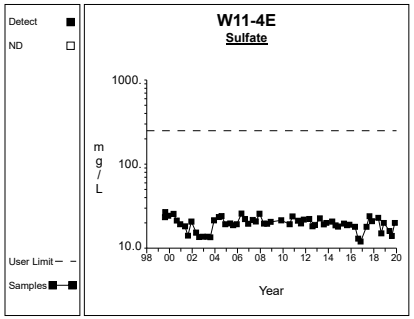
Graph 194



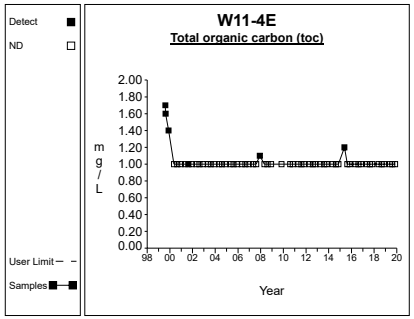
Graph 195



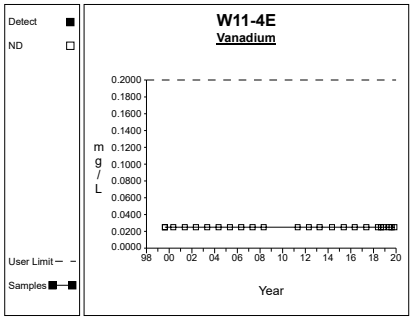
Graph 196



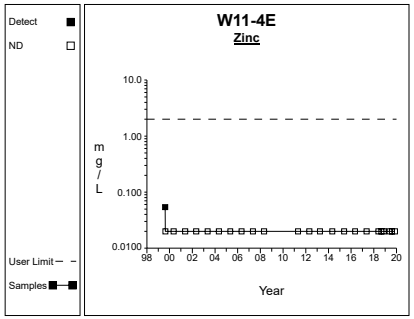
Graph 197



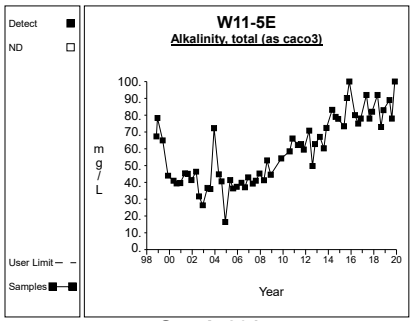
Graph 198



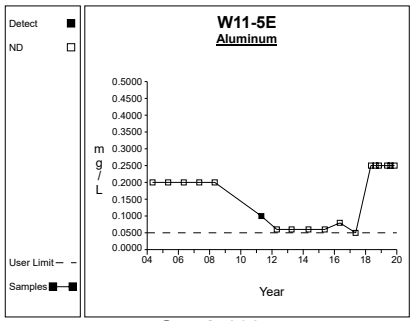
Graph 199



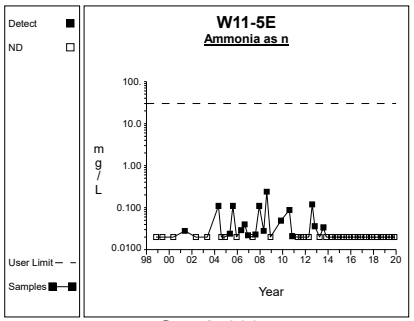
Graph 200



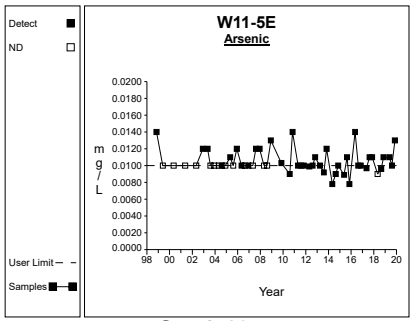
Graph 201



Graph 202

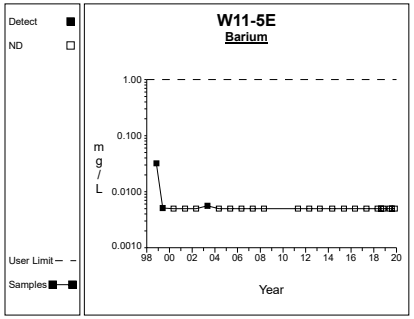


Graph 203

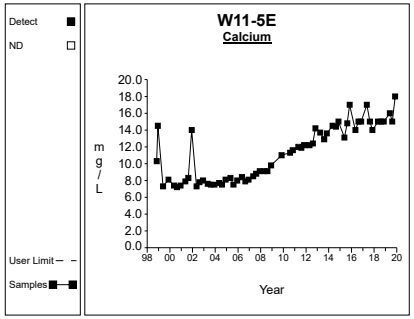


Graph 204

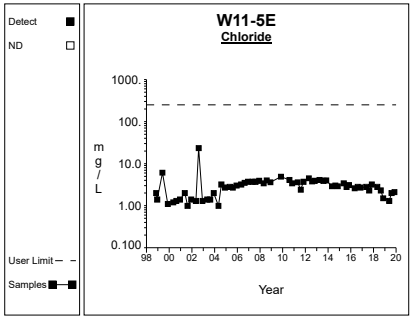
Time Series



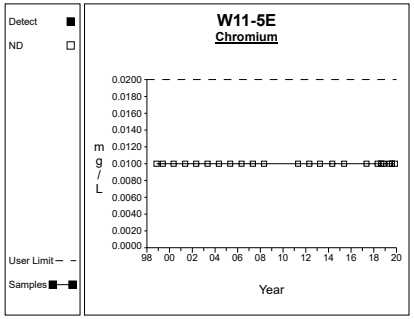
Graph 205



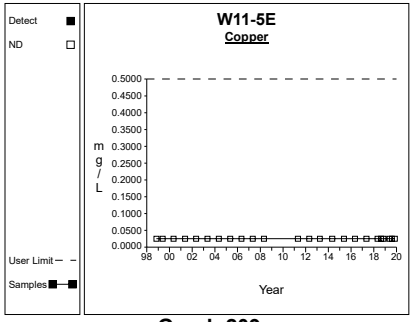
Graph 206



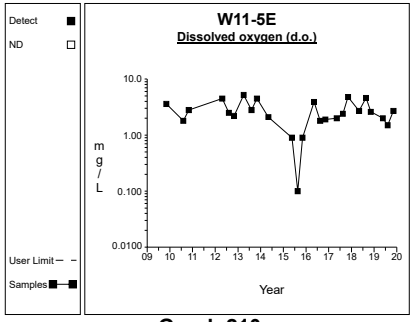
Graph 207



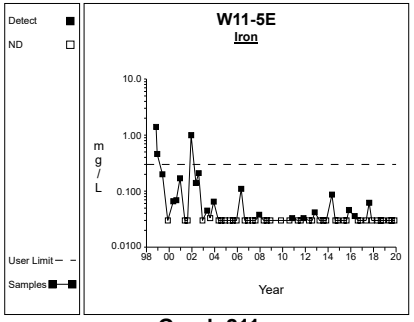
Graph 208



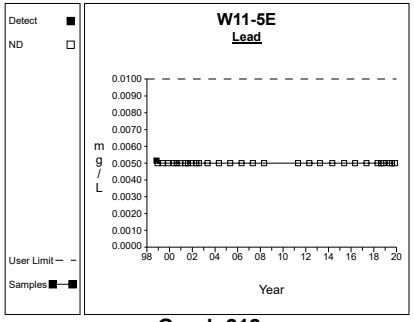
Graph 209



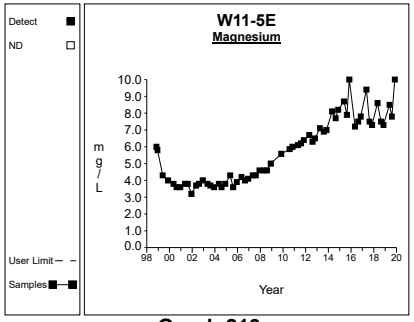
Graph 210



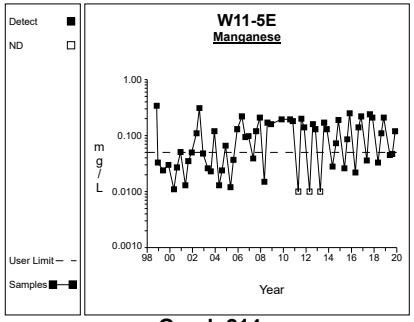
Graph 211



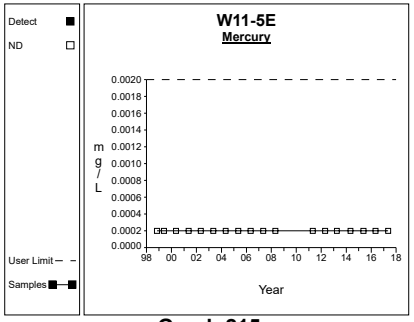
Graph 212



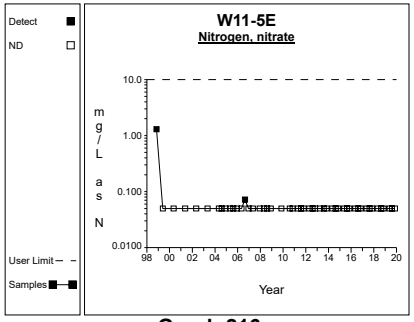
Graph 213



Graph 214

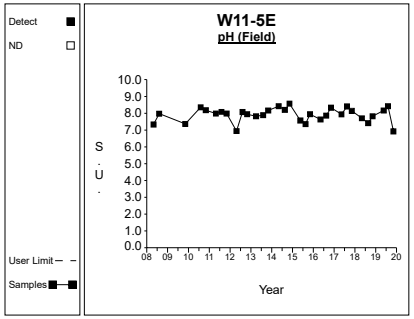


Graph 215

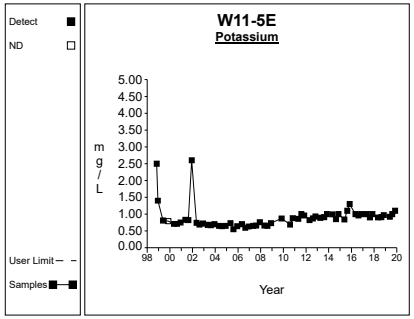


Graph 216

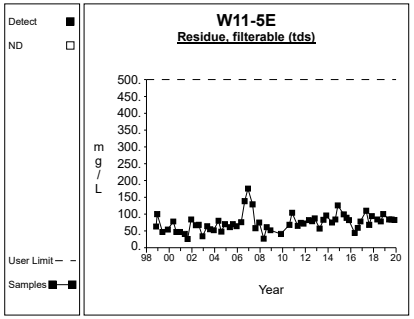
Time Series



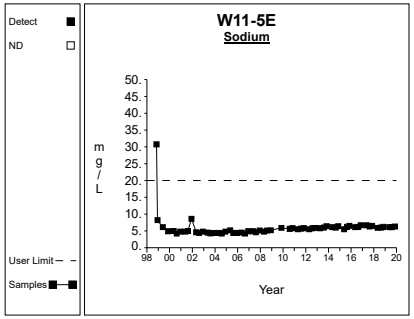
Graph 217



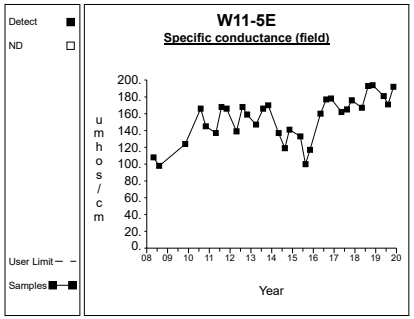
Graph 218



Graph 219



Graph 220



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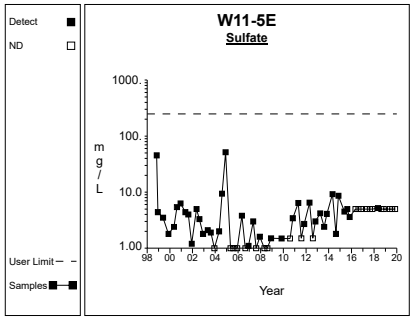
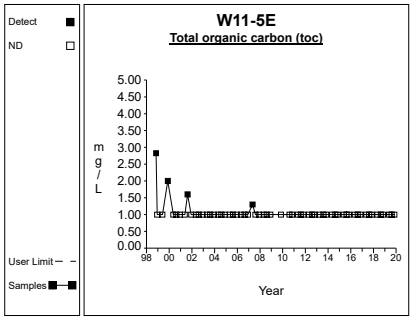
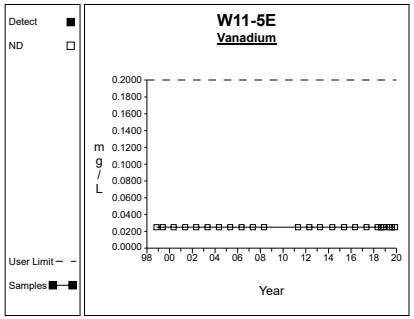


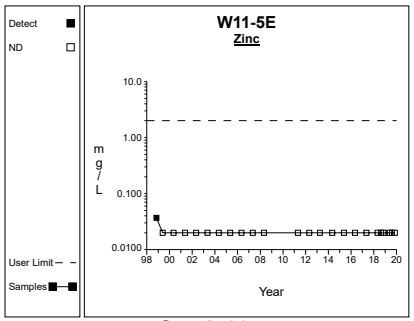
Graph 222



Graph 223



Graph 224



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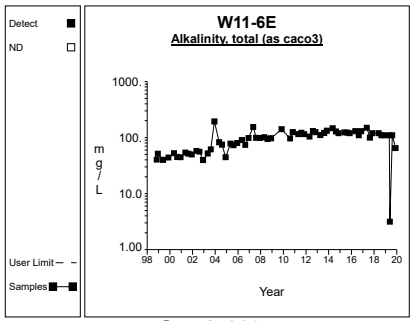
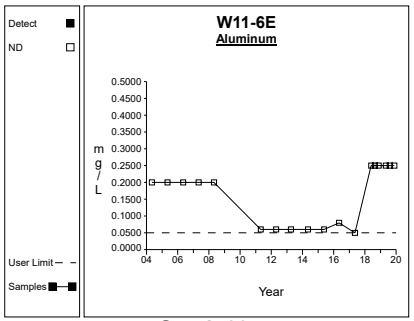
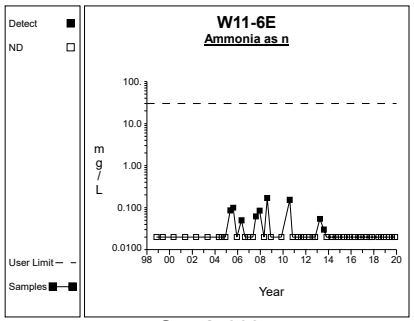


Graph 226

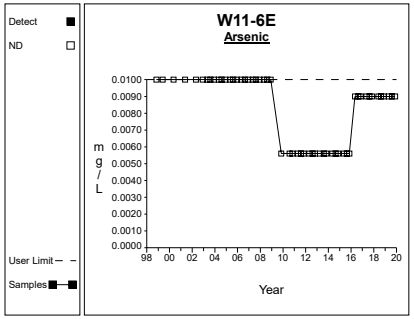


Graph 227

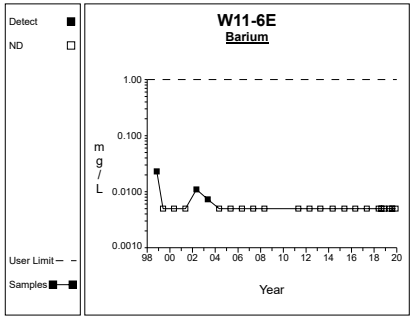


Graph 228

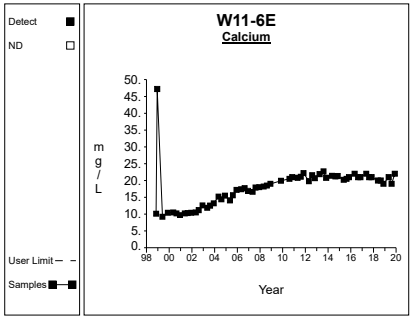
Time Series



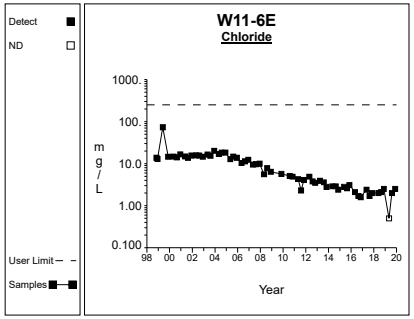
Graph 229



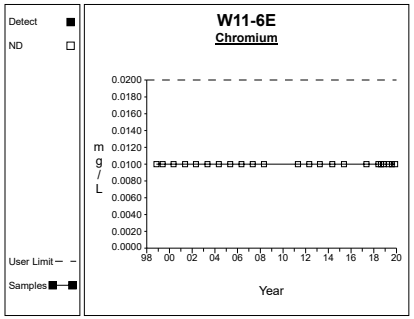
Graph 230



Graph 231



Graph 232



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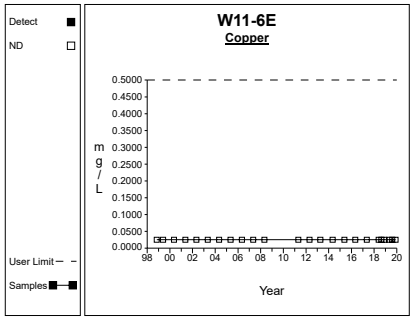
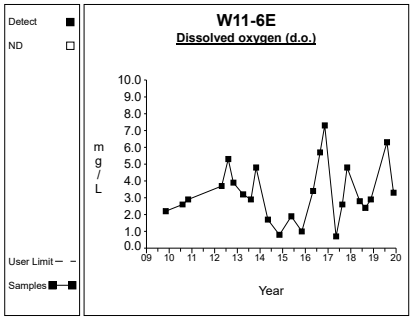
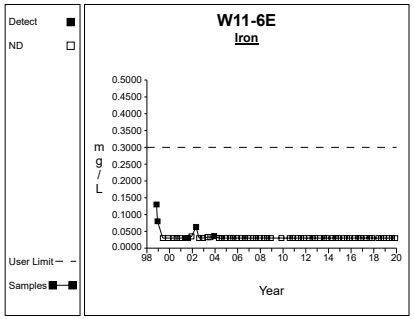


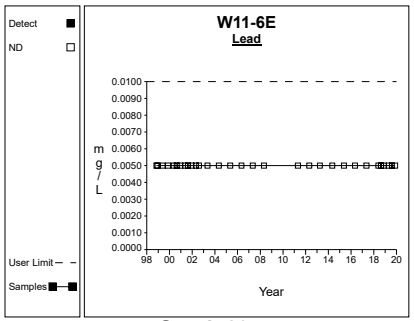
Graph 234



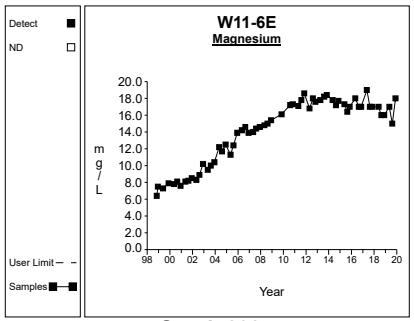
Graph 235



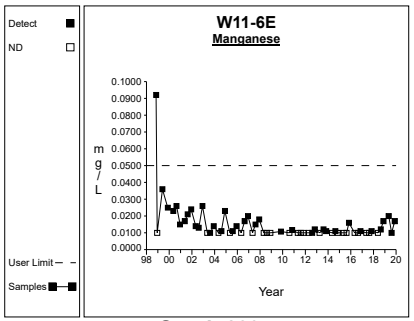
Graph 236



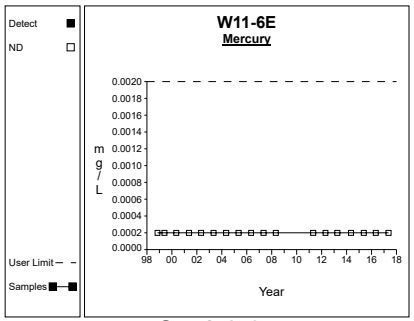
Graph 237



Graph 238

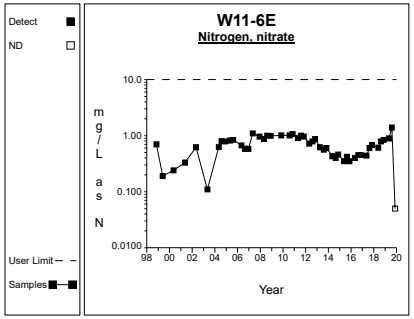


Graph 239

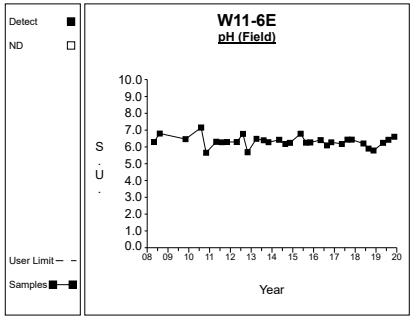


Graph 240

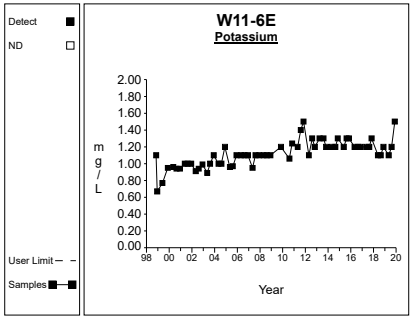
Time Series



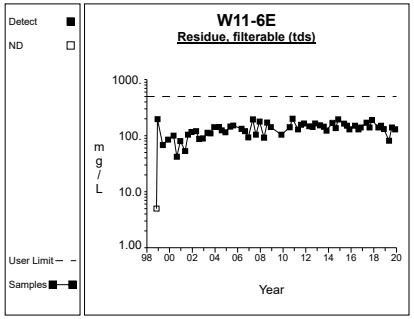
Graph 241



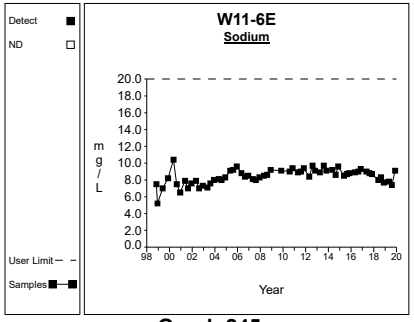
Graph 242



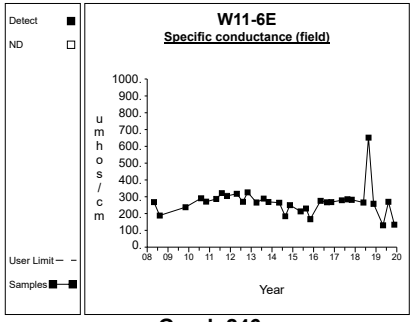
Graph 243



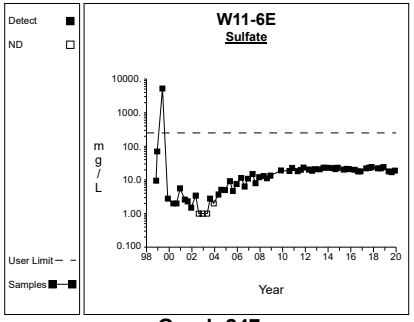
Graph 244



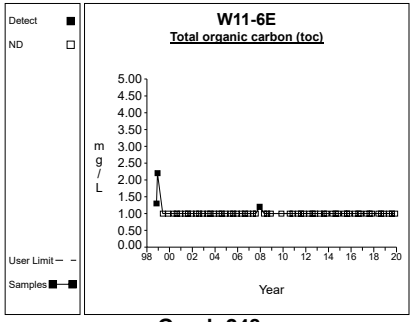
Graph 245



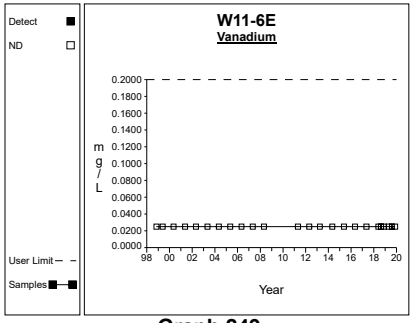
Graph 246



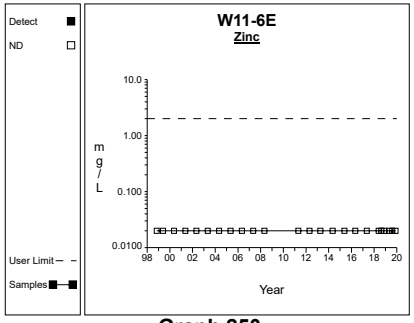
Graph 247



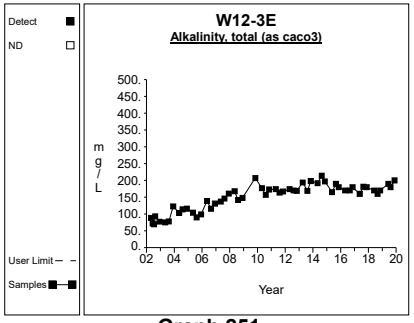
Graph 248



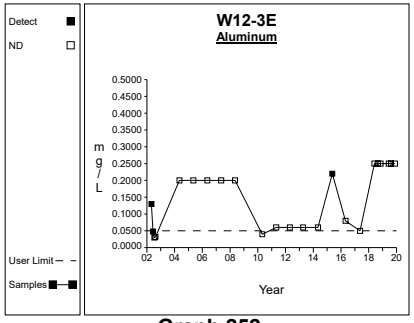
Graph 249



Graph 250

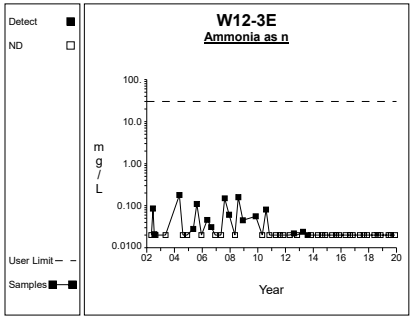


Graph 251

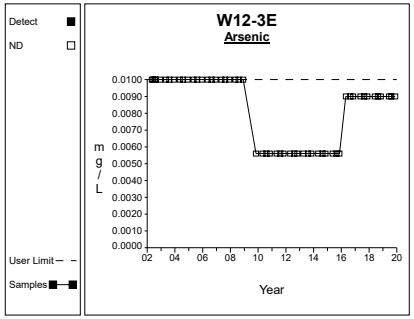


Graph 252

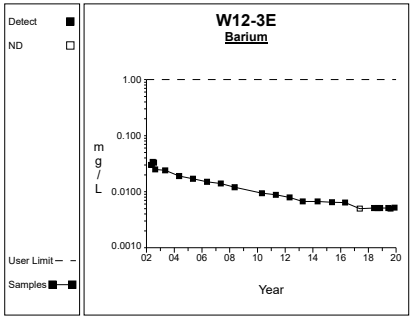
Time Series



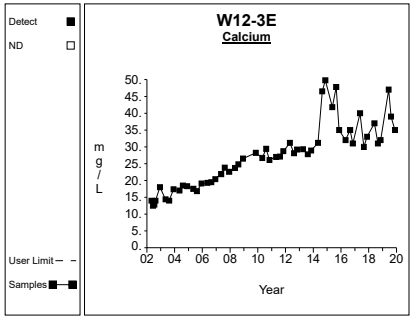
Graph 253



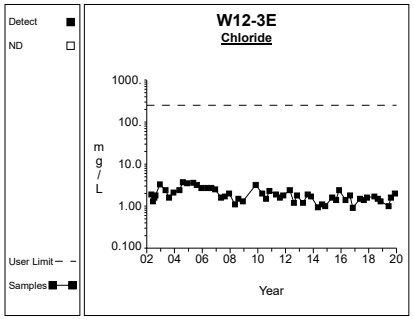
Graph 254



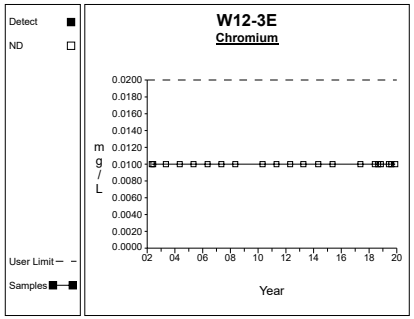
Graph 255



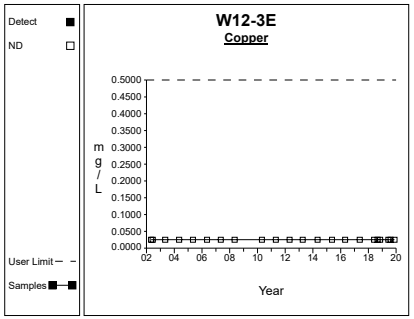
Graph 256



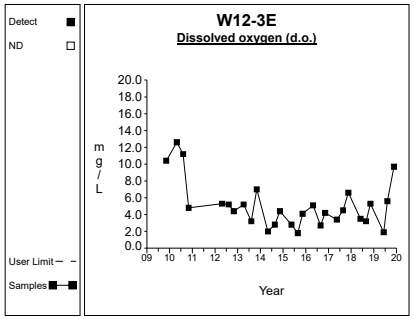
Graph 257



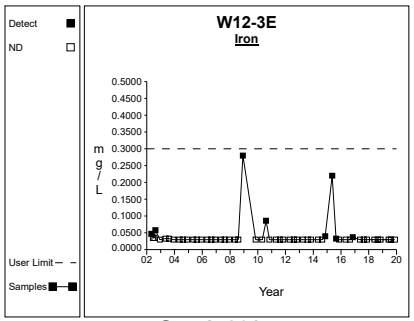
Graph 258



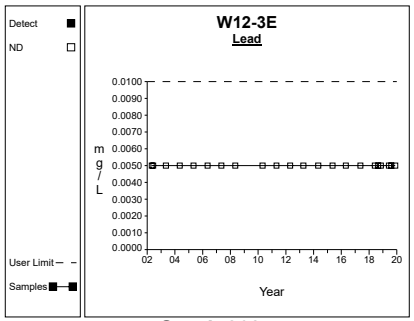
Graph 259



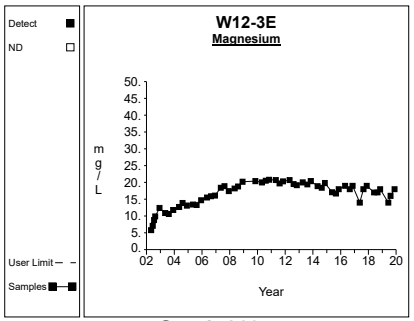
Graph 260



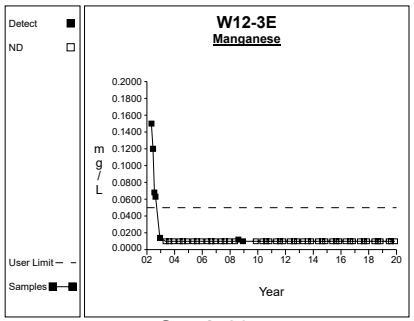
Graph 261



Graph 262

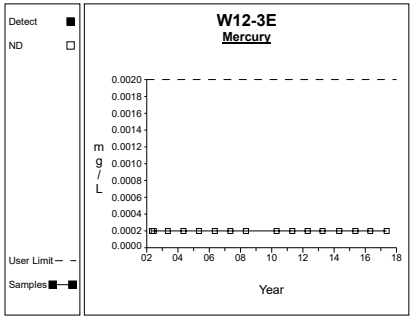


Graph 263

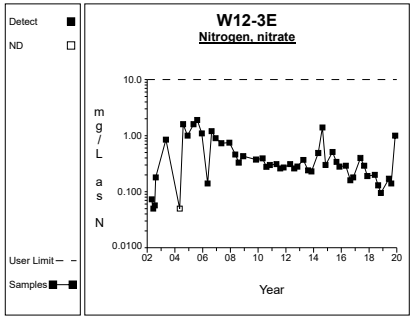


Graph 264

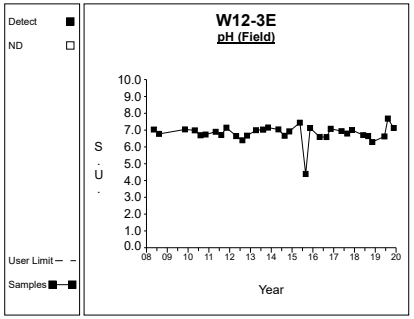
Time Series



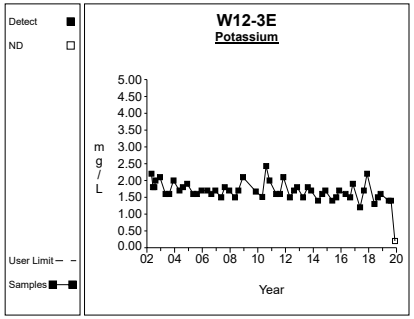
Graph 265



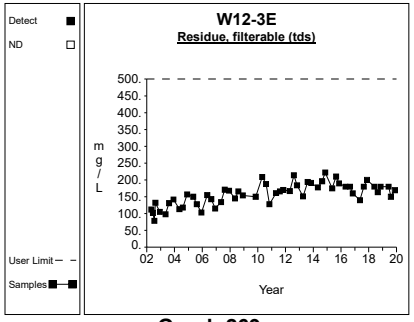
Graph 266



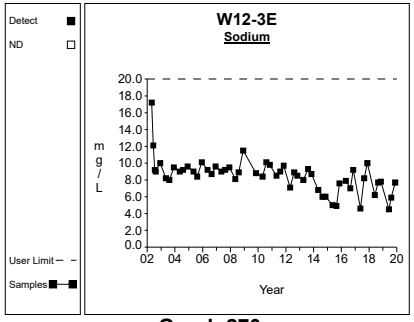
Graph 267



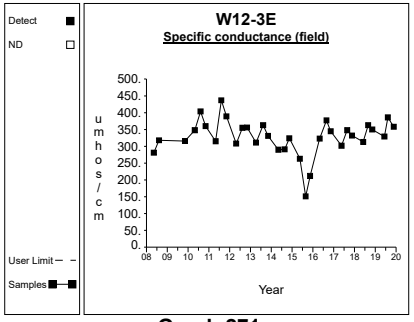
Graph 268



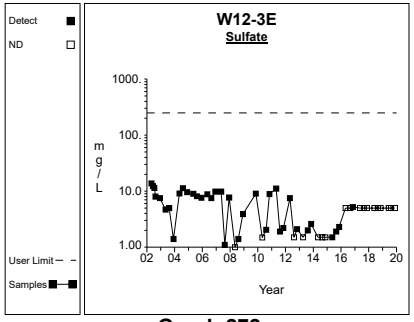
Graph 269



Graph 270



Graph 271



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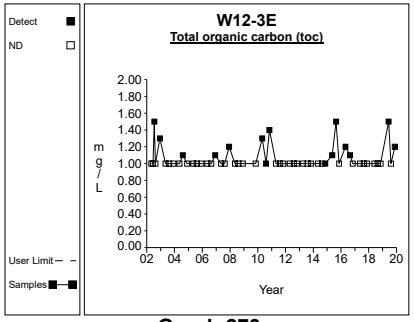

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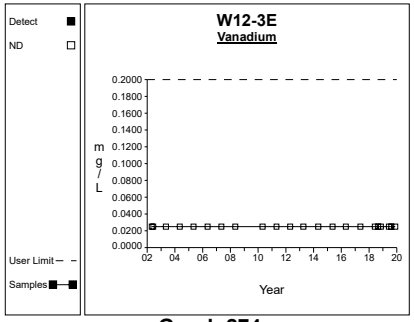
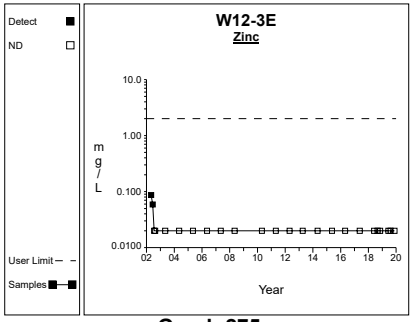
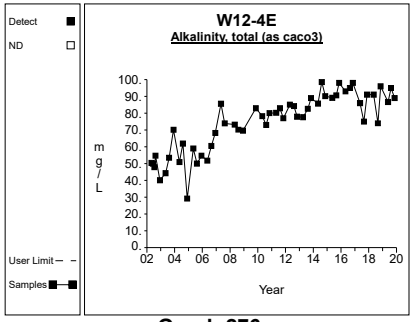


Graph 274

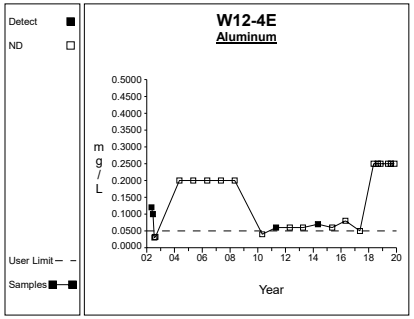


Graph 275

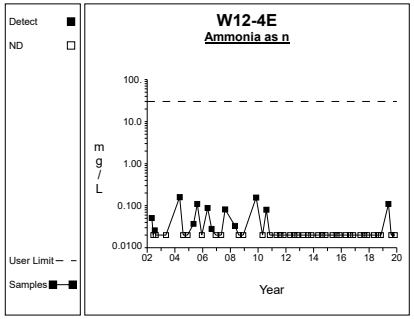


Graph 276

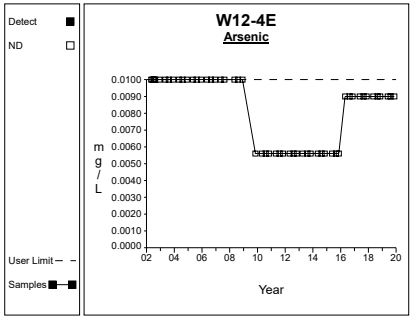
Time Series



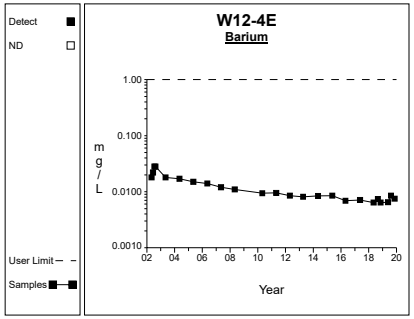
Graph 277



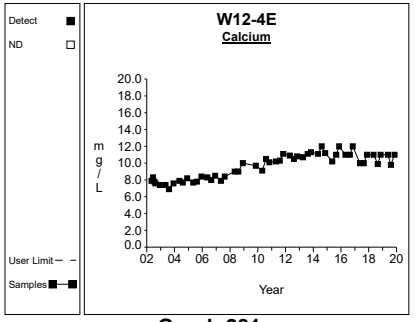
Graph 278



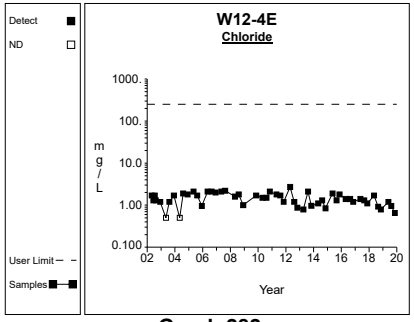
Graph 279



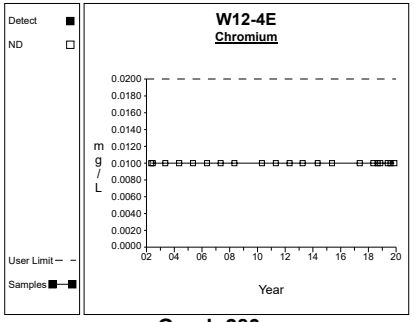
Graph 280



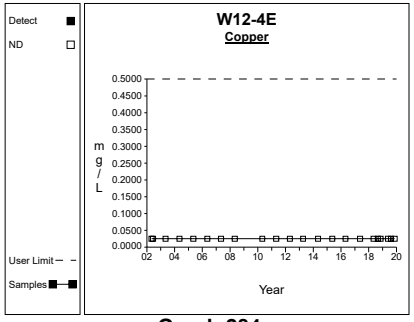
Graph 281



Graph 282



Graph 283



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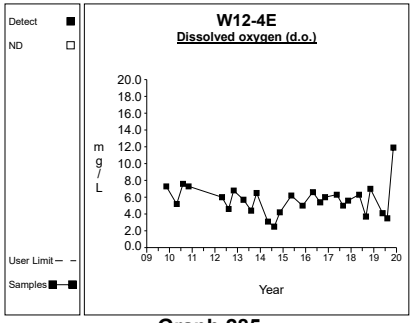
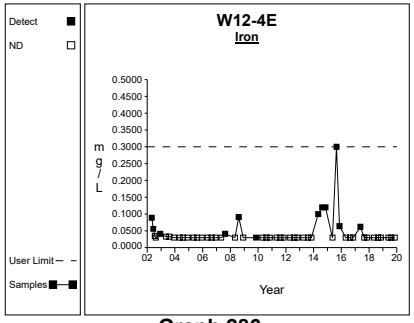
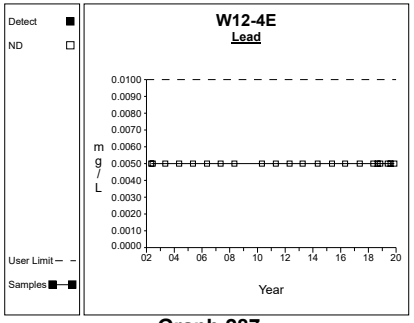


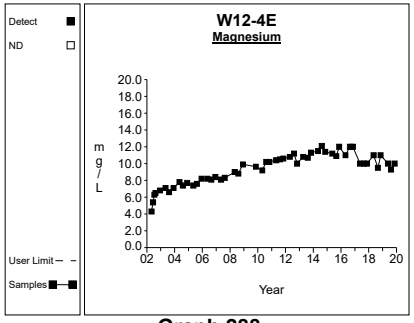
Graph 285



Graph 286

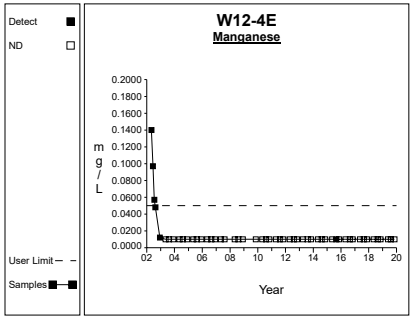


Graph 287

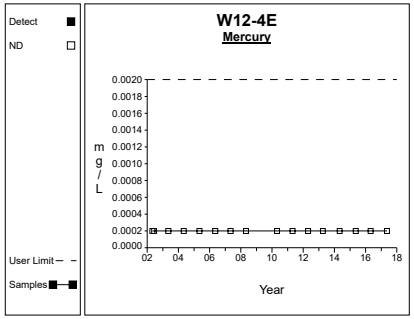


Graph 288

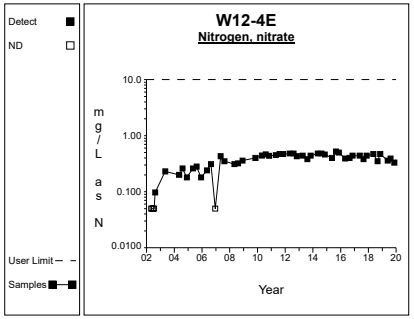
Time Series



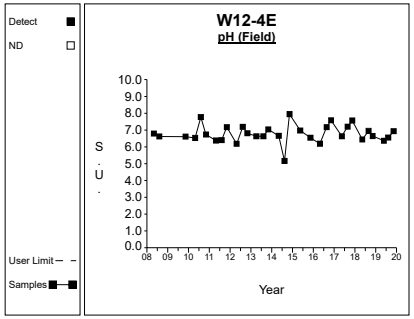
Graph 289



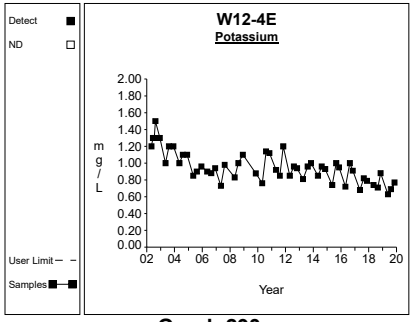
Graph 290



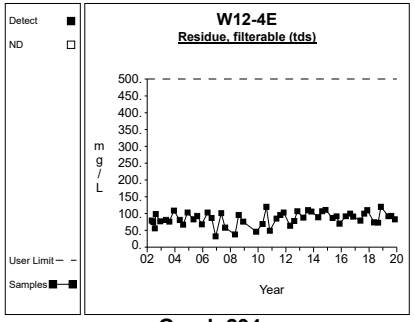
Graph 291



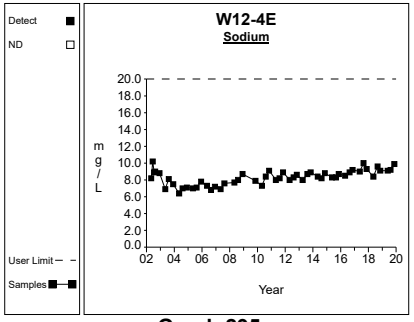
Graph 292



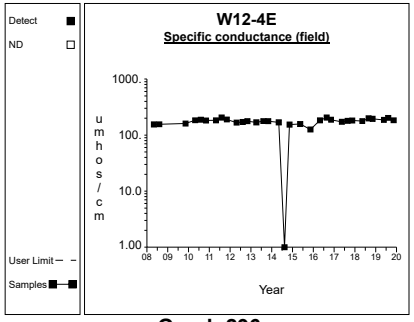
Graph 293



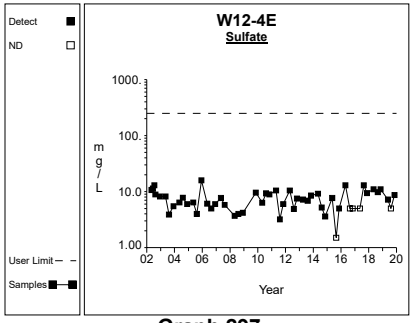
Graph 294



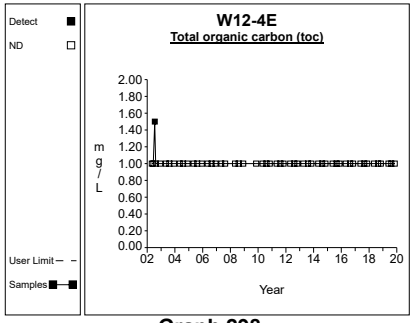
Graph 295



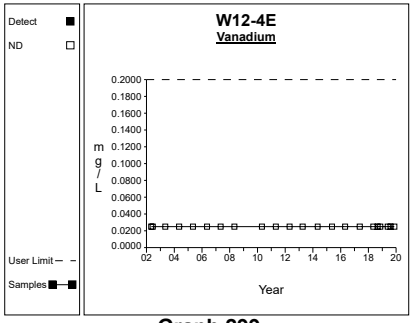
Graph 296



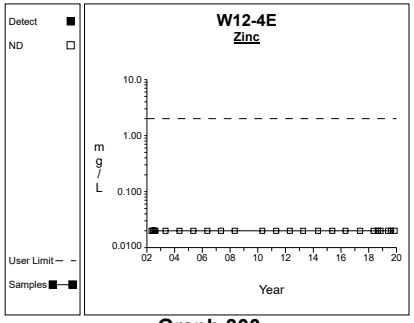
Graph 297



Graph 298

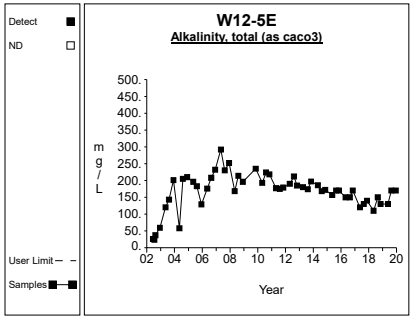


Graph 299

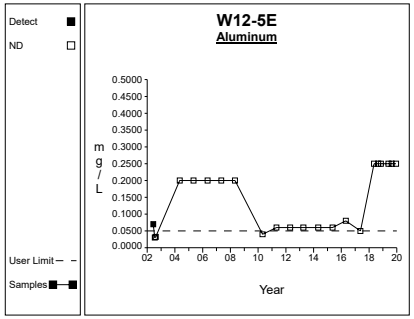


Graph 300

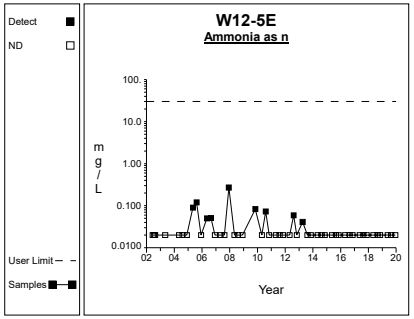
Time Series



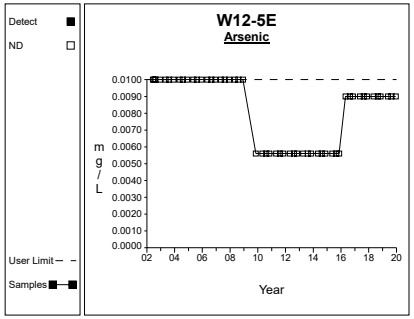
Graph 301



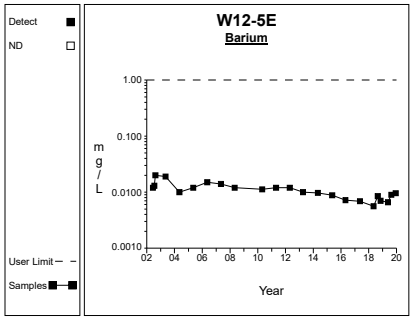
Graph 302



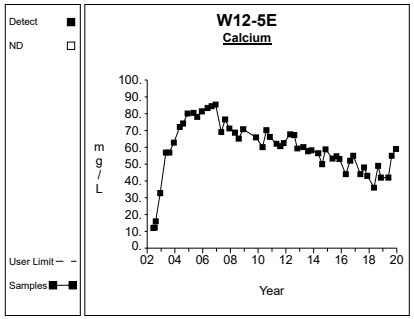
Graph 303



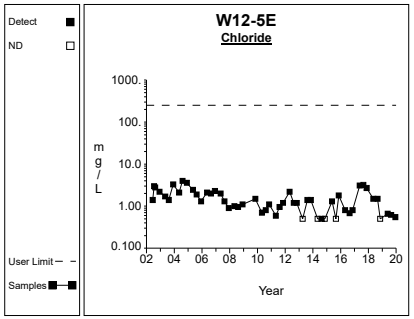
Graph 304



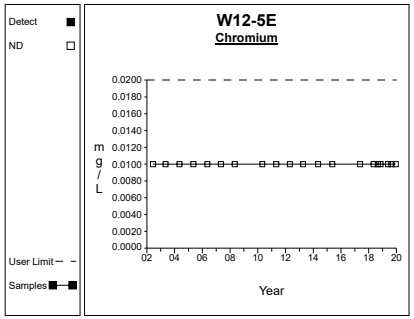
Graph 305



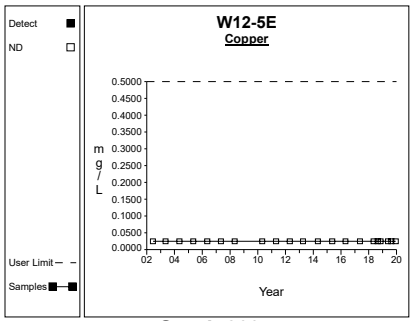
Graph 306



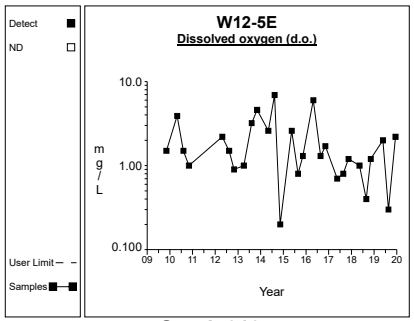
Graph 307



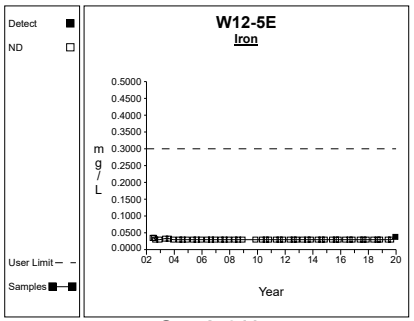
Graph 308



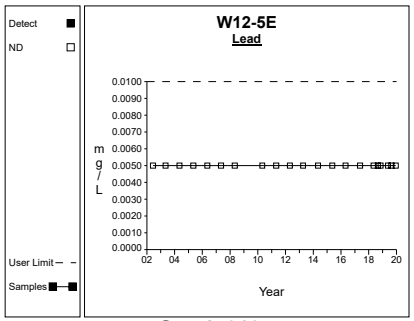
Graph 309



Graph 310

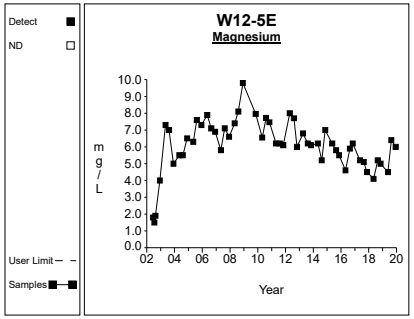


Graph 311

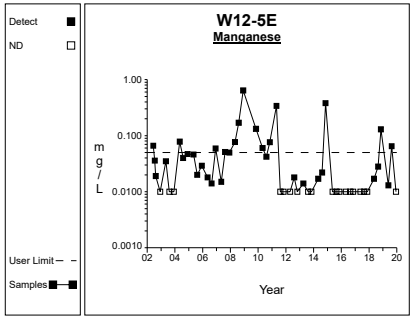


Graph 312

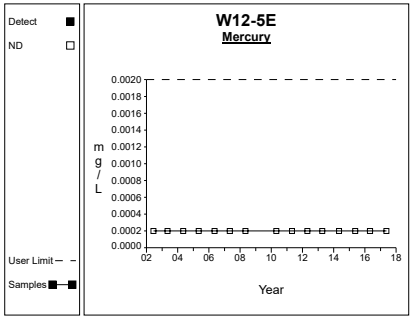
Time Series



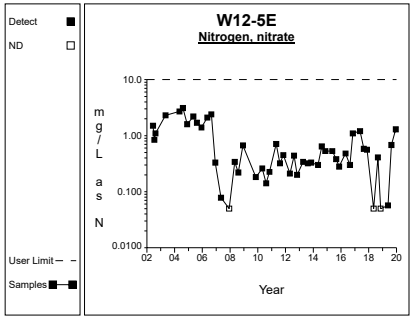
Graph 313



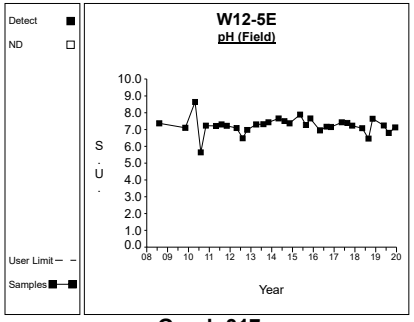
Graph 314



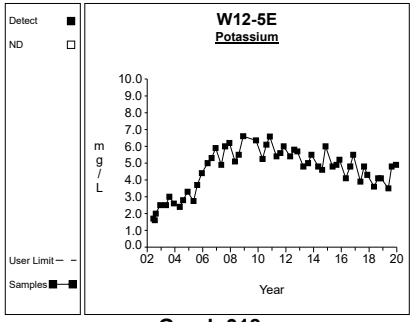
Graph 315



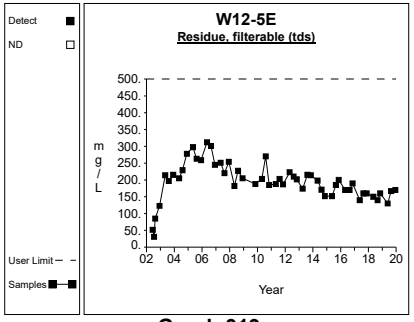
Graph 316



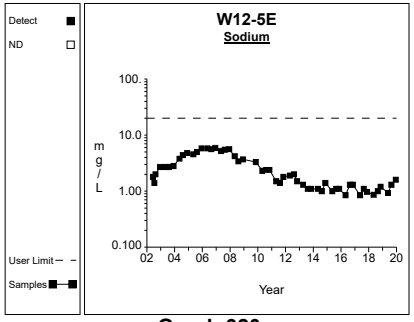
Graph 317



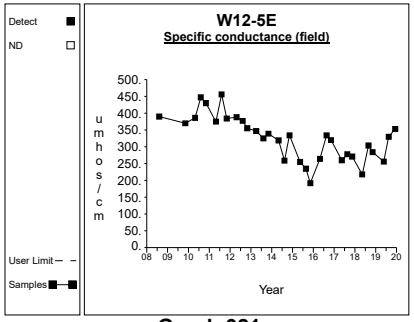
Graph 318



Graph 319



Graph 320



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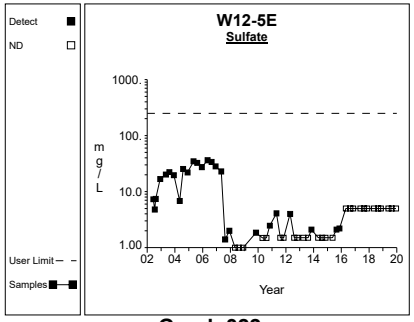
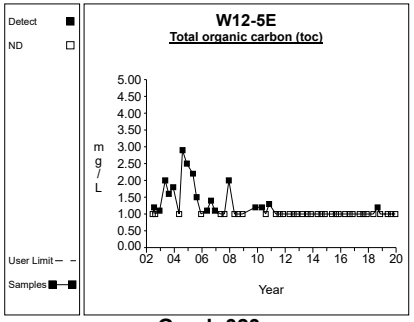
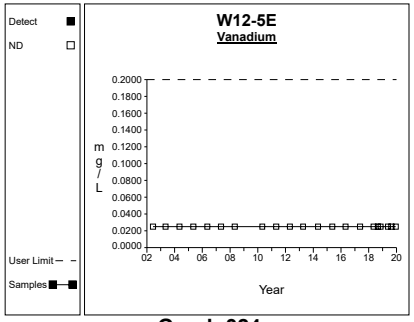


Graph 322

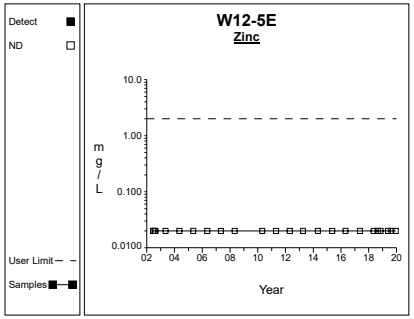


Graph 323

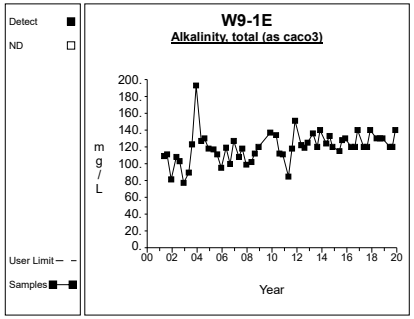


Graph 324

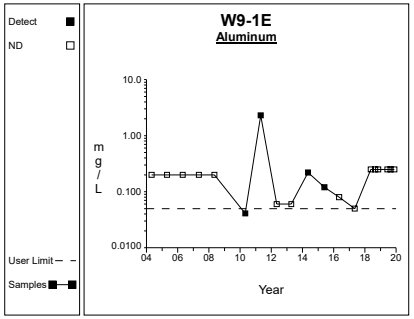
Time Series



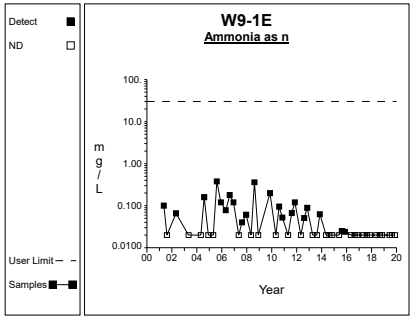
Graph 325



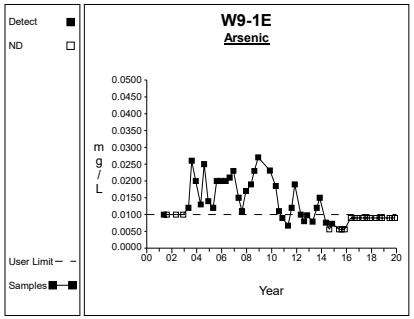
Graph 326



Graph 327



Graph 328



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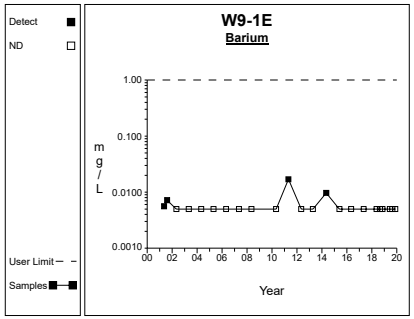
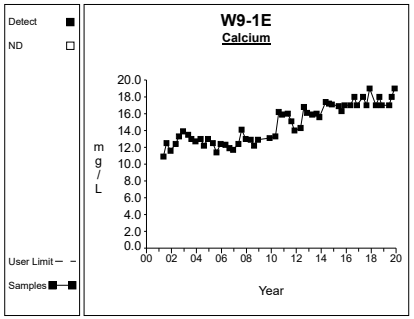
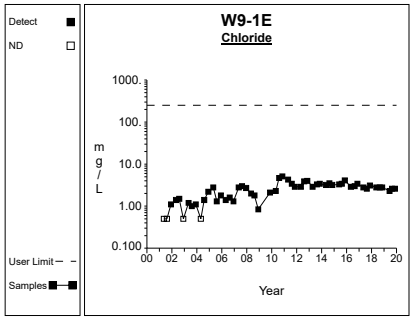


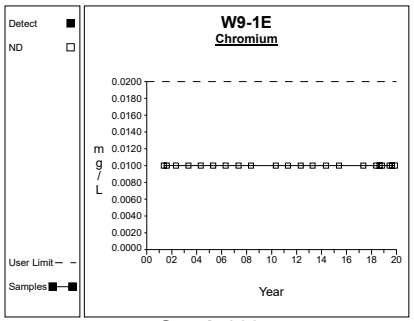
Graph 330



Graph 331



Graph 332



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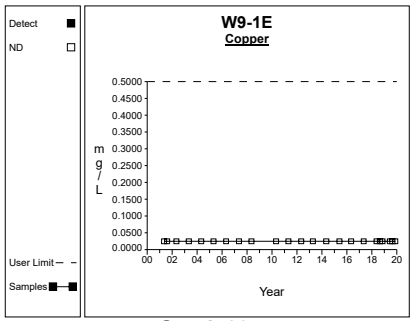
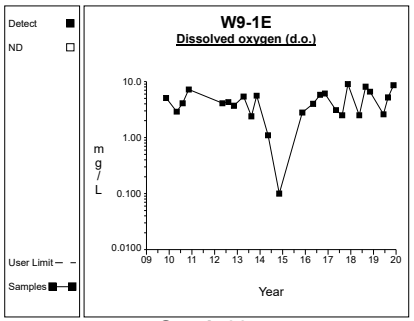
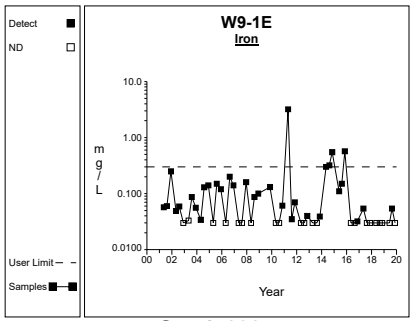


Graph 334

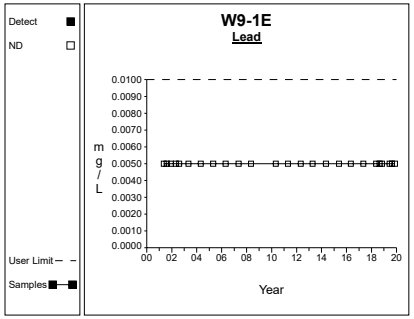


Graph 335

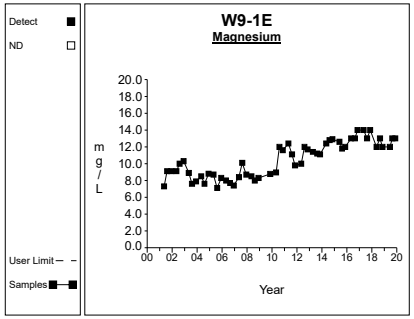


Graph 336

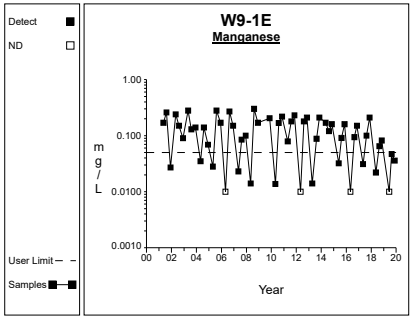
Time Series



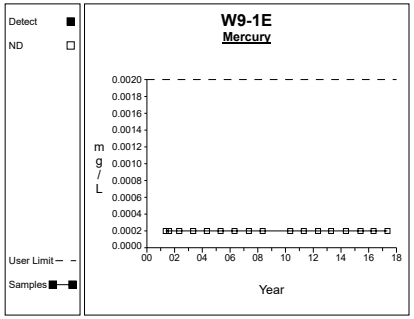
Graph 337



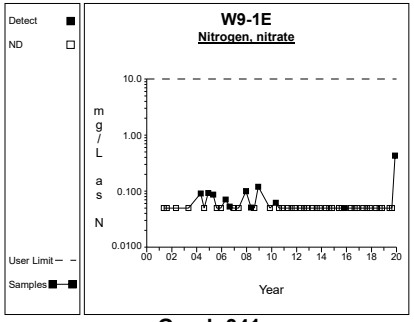
Graph 338



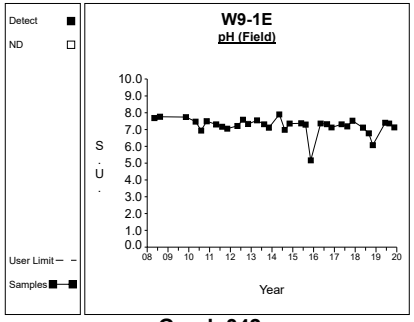
Graph 339



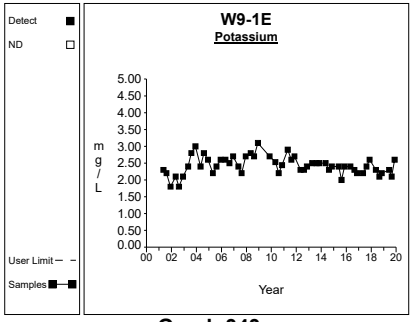
Graph 340



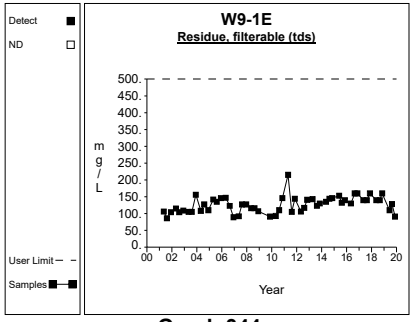
Graph 341



Graph 342



Graph 343



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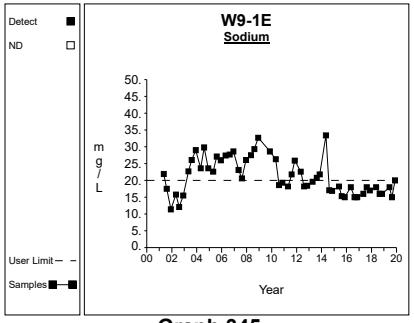
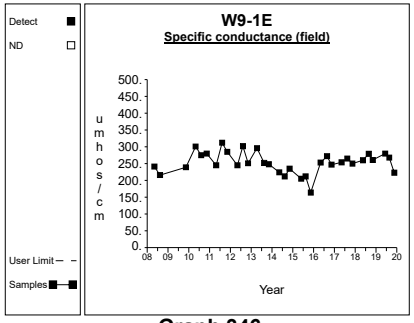
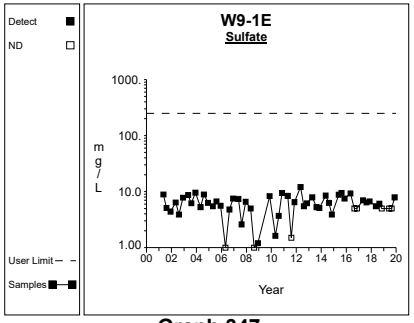


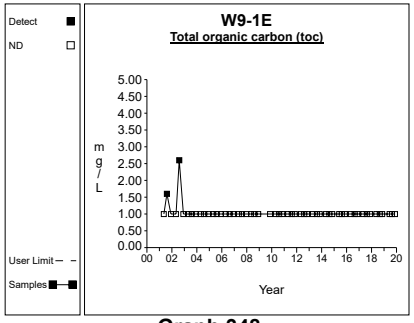
Graph 345



Graph 346

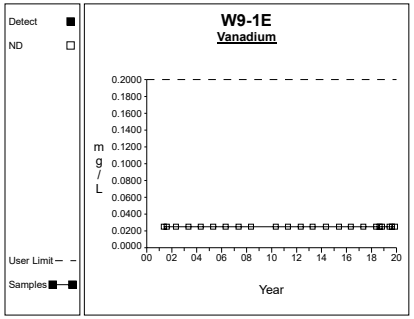


Graph 347

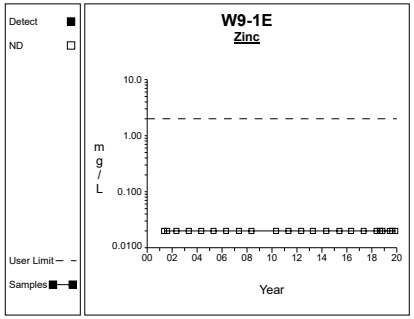


Graph 348

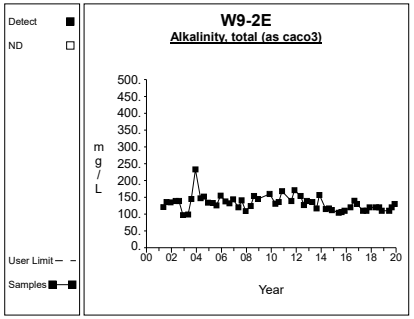
Time Series



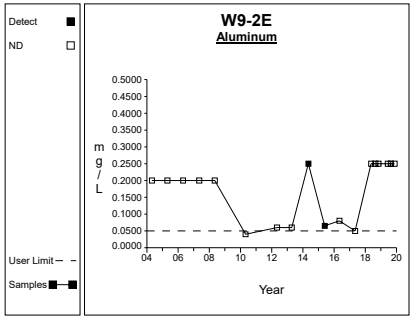
Graph 349



Graph 350



Graph 351



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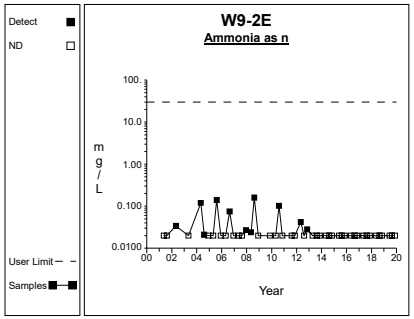
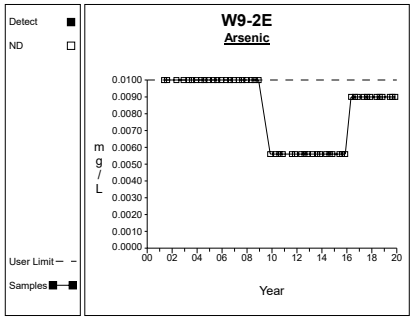
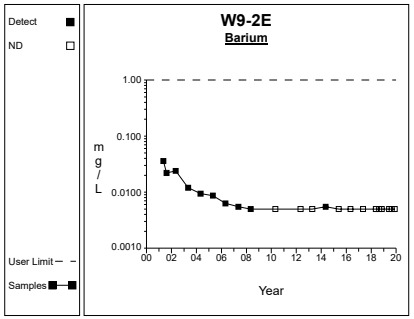


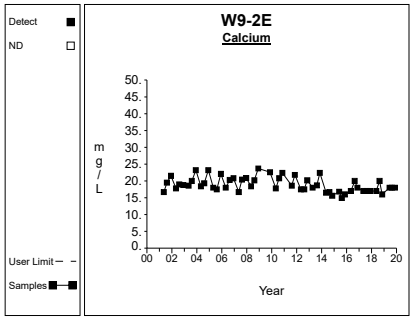
Graph 353



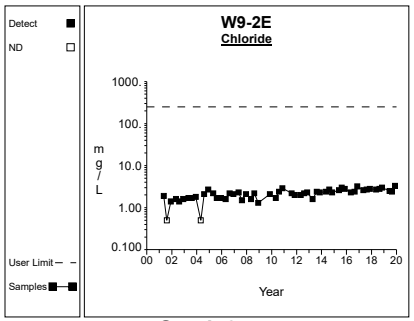
Graph 354



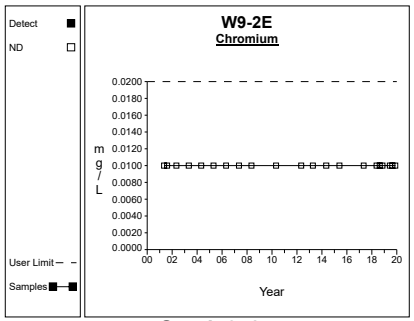
Graph 355



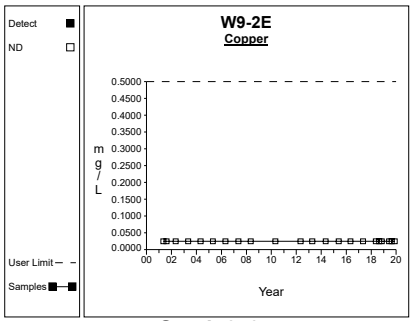
Graph 356



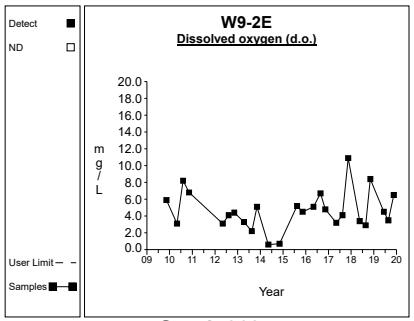
Graph 357



Graph 358

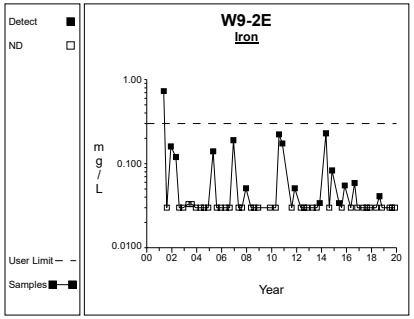


Graph 359

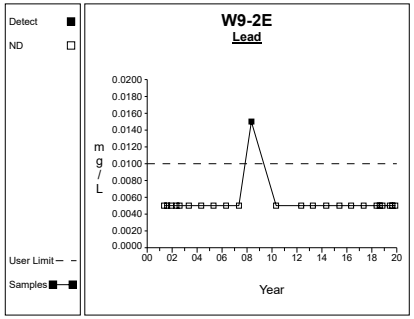


Graph 360

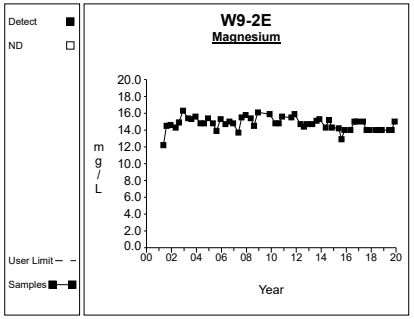
Time Series



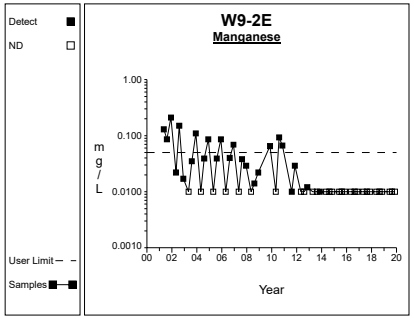
Graph 361



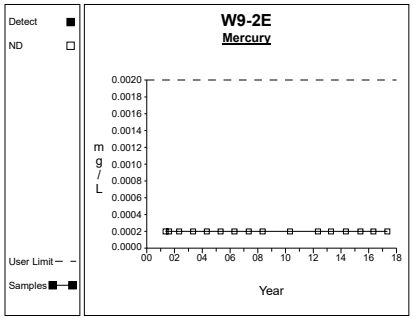
Graph 362



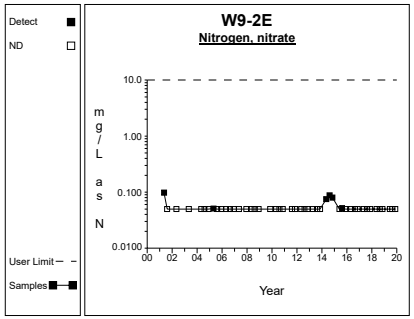
Graph 363



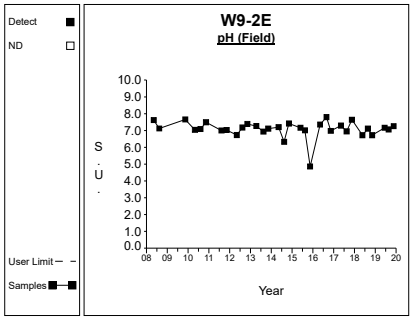
Graph 364



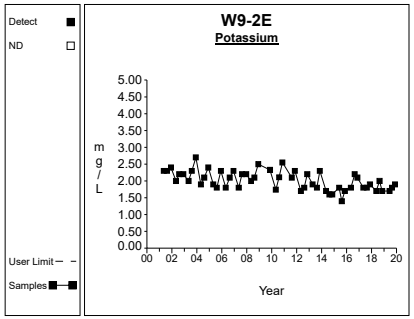
Graph 365



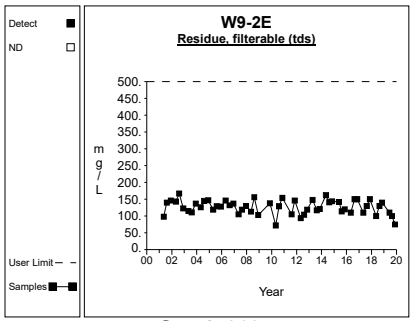
Graph 366



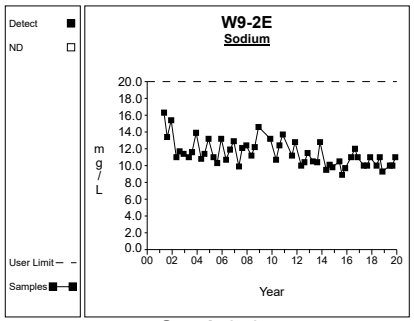
Graph 367



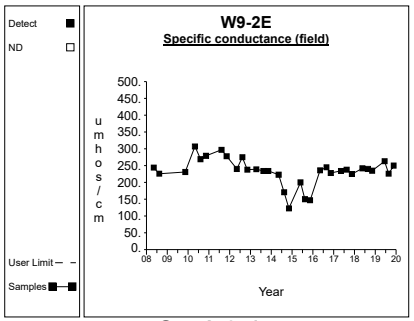
Graph 368



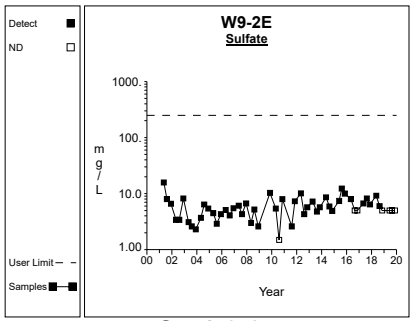
Graph 369



Graph 370

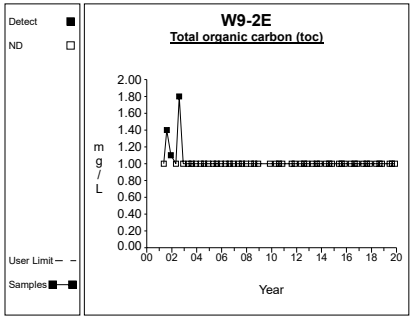


Graph 371

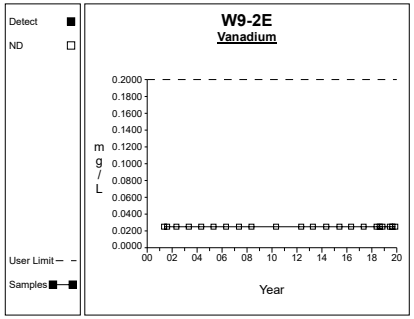


Graph 372

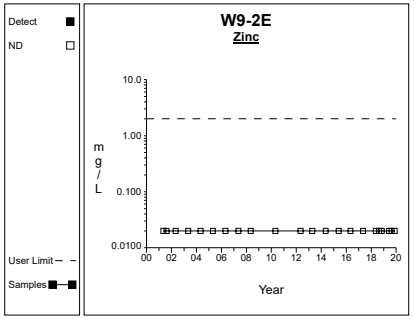
Time Series



Graph 373



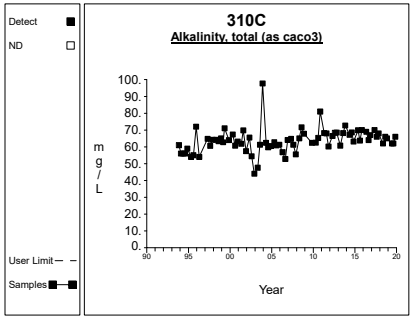
Graph 374



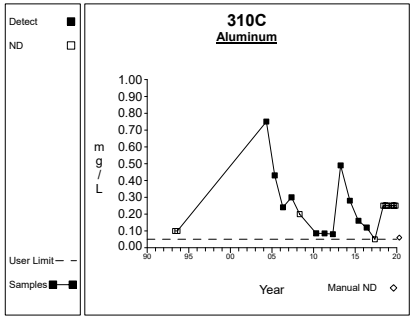
Graph 375

Upgradient Wells – Till Zone

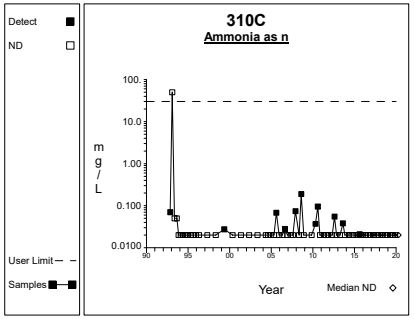
Time Series



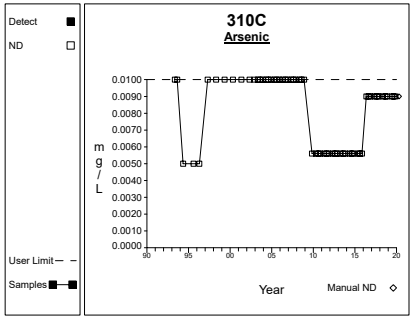
Graph 1



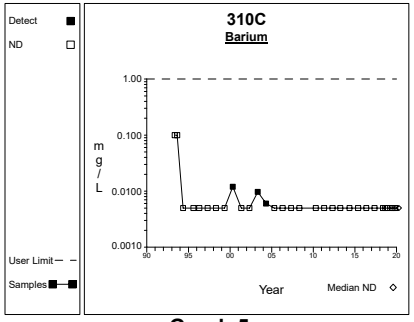
Graph 2



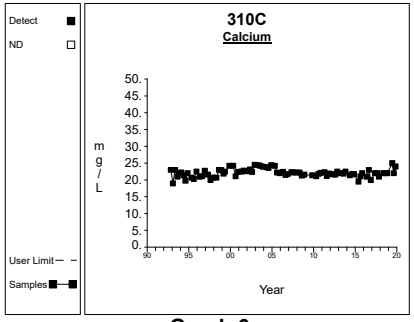
Graph 3



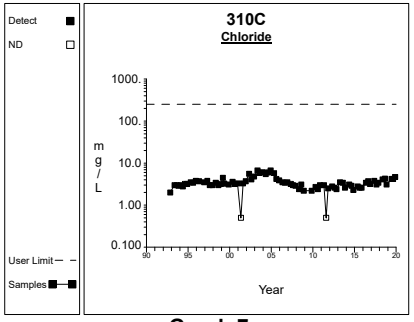
Graph 4



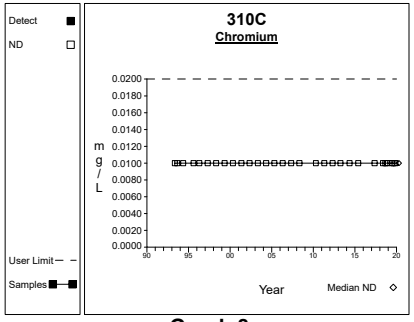
Graph 5



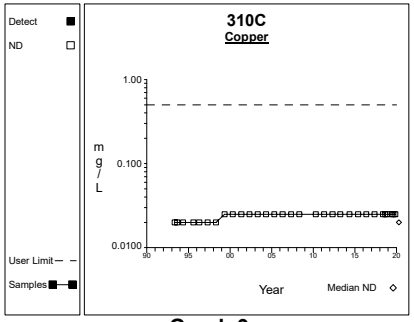
Graph 6



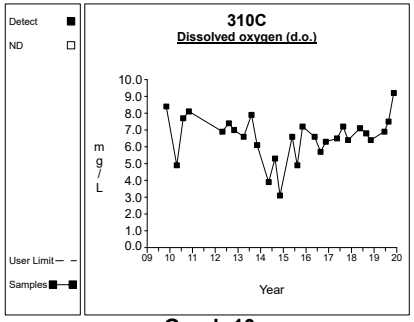
Graph 7



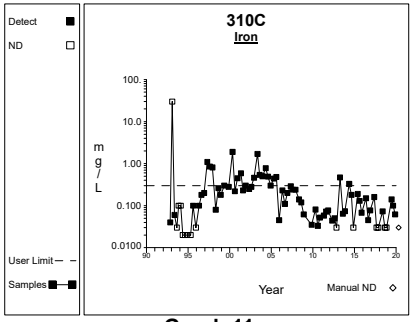
Graph 8



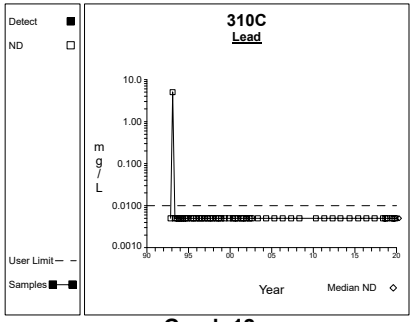
Graph 9



Graph 10

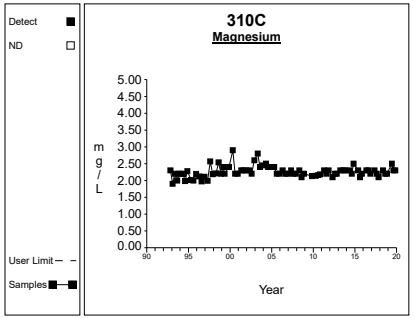


Graph 11

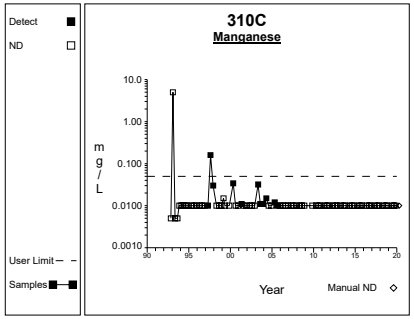


Graph 12

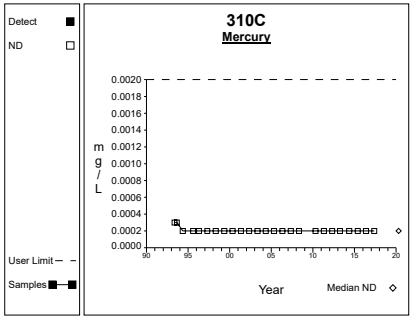
Time Series



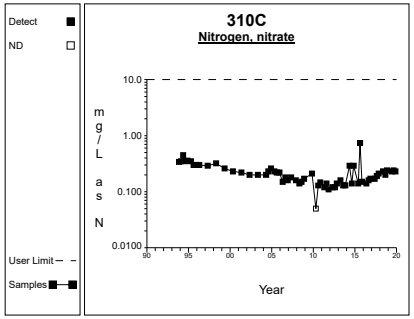
Graph 13



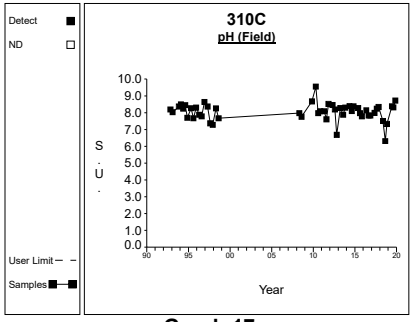
Graph 14



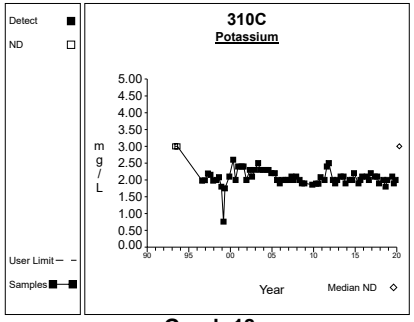
Graph 15



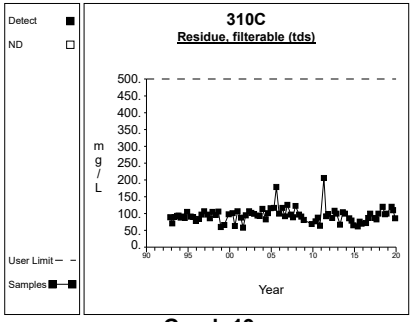
Graph 16



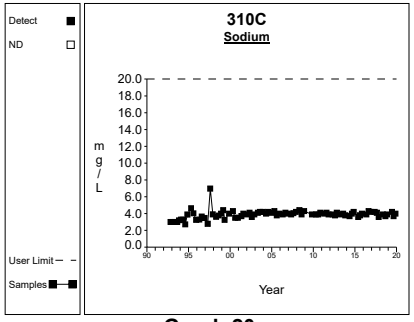
Graph 17



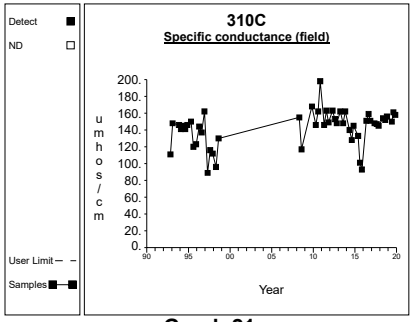
Graph 18



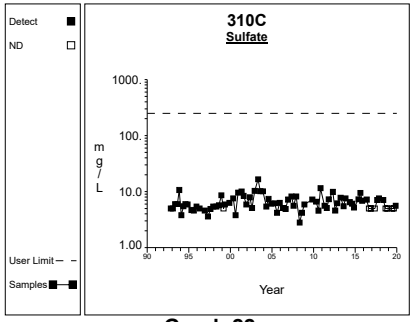
Graph 19



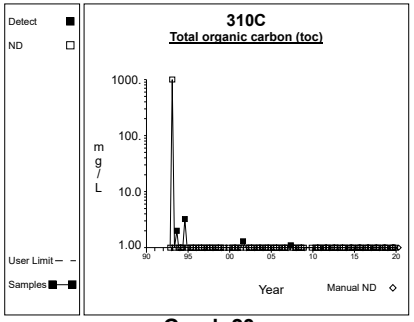
Graph 20



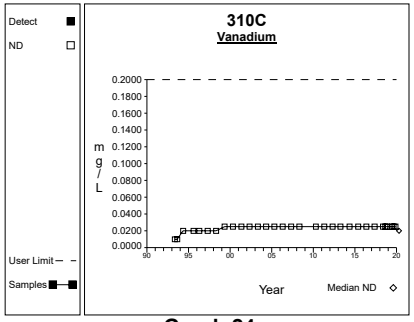
Graph 21



Graph 22

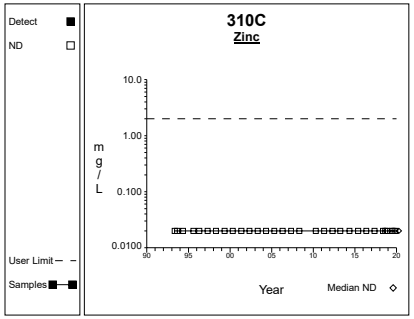


Graph 23

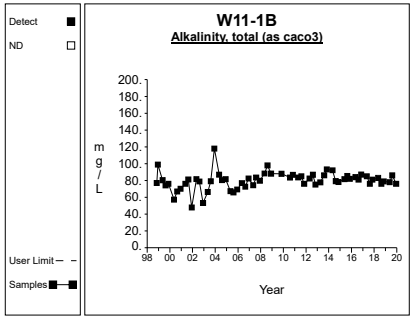


Graph 24

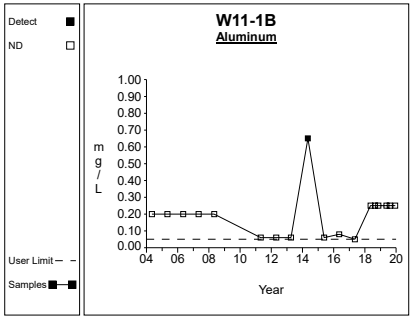
Time Series



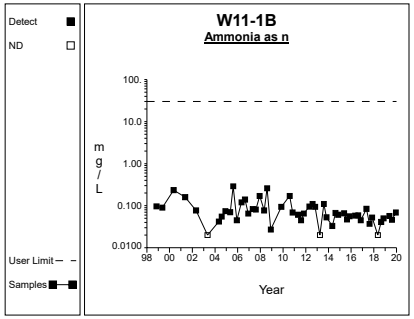
Graph 25



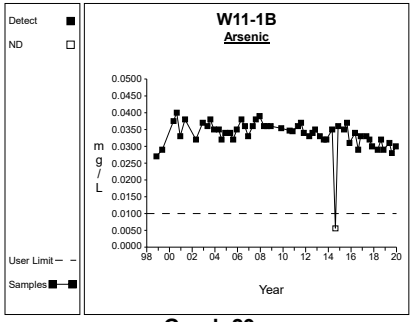
Graph 26



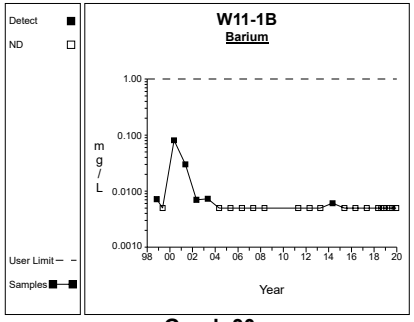
Graph 27



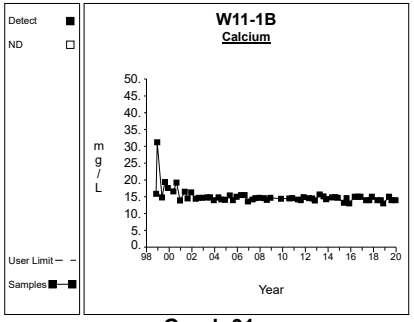
Graph 28



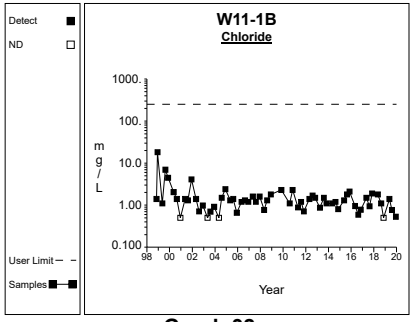
Graph 29



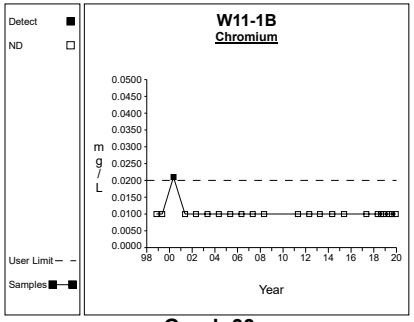
Graph 30



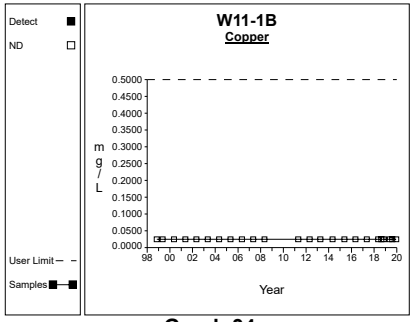
Graph 31



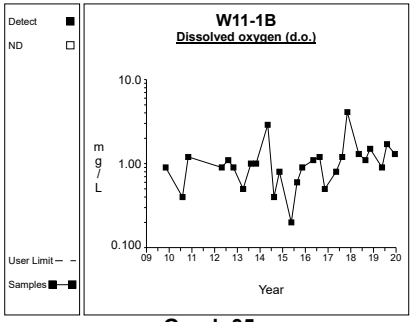
Graph 32



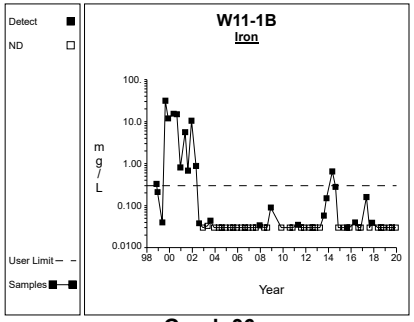
Graph 33



Graph 34

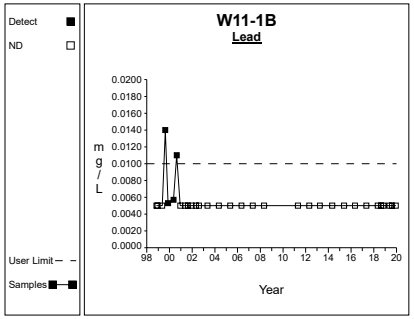


Graph 35

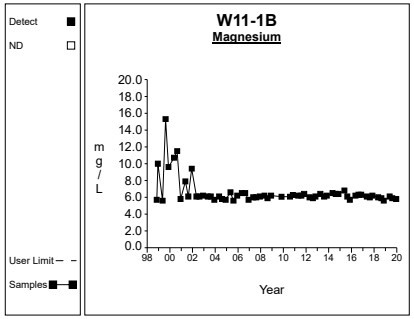


Graph 36

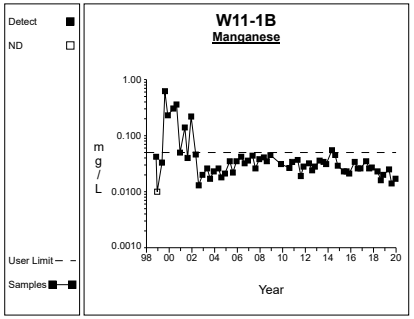
Time Series



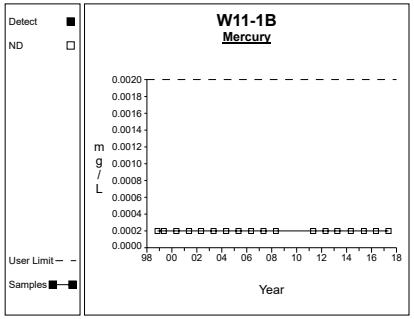
Graph 37



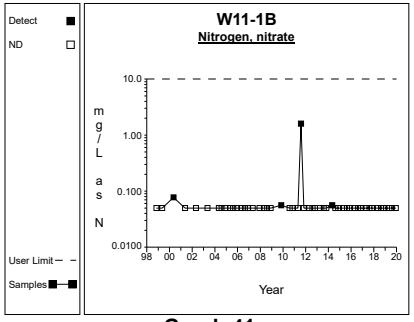
Graph 38



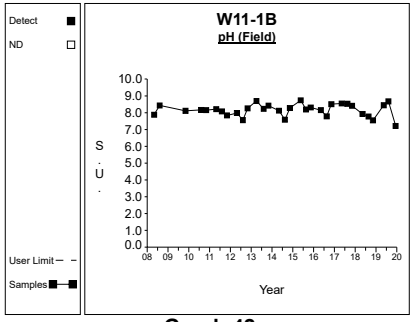
Graph 39



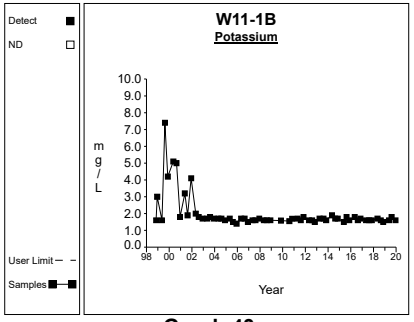
Graph 40



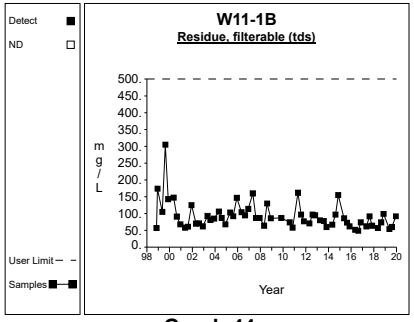
Graph 41



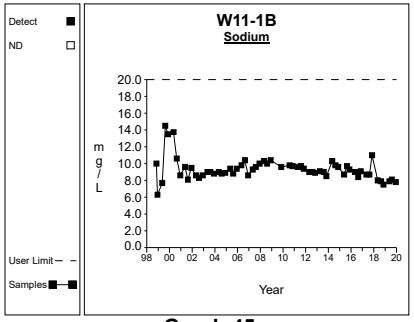
Graph 42



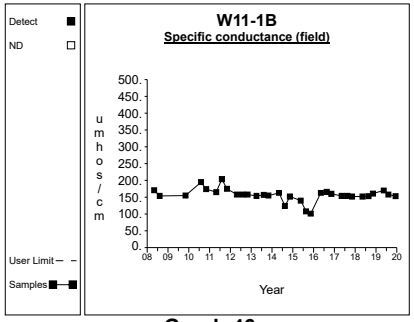
Graph 43



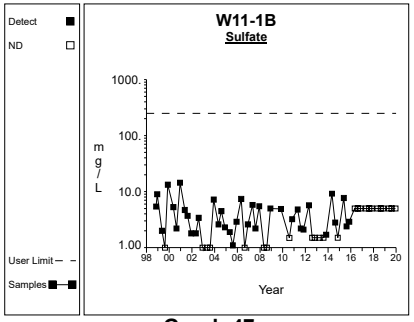
Graph 44



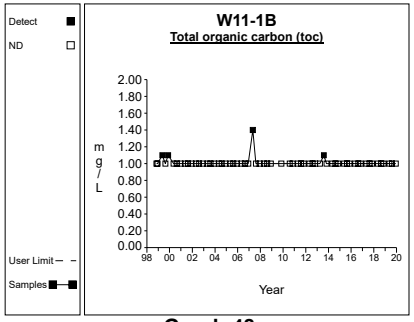
Graph 45



Graph 46

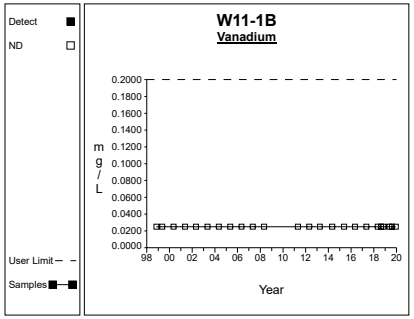


Graph 47

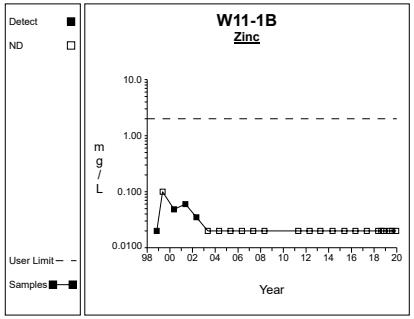


Graph 48

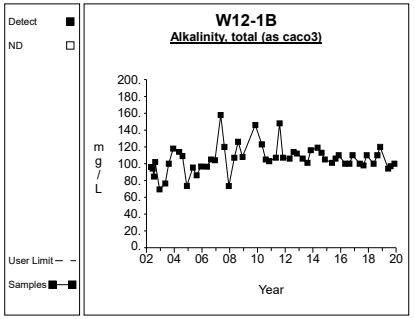
Time Series



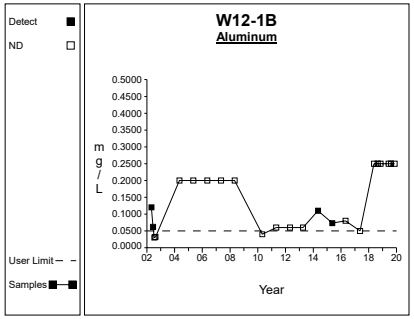
Graph 49



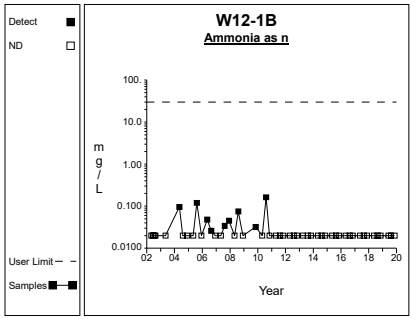
Graph 50



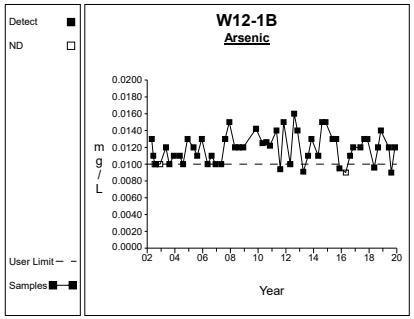
Graph 51



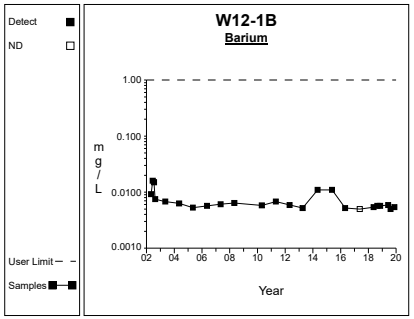
Graph 52



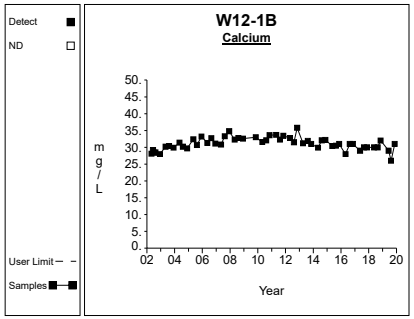
Graph 53



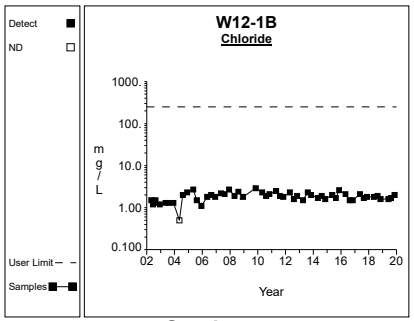
Graph 54



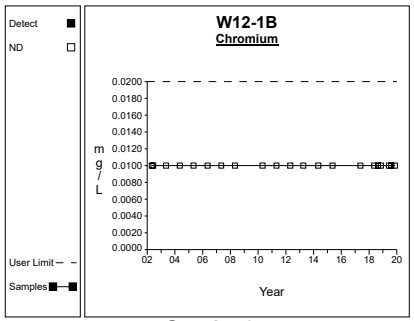
Graph 55



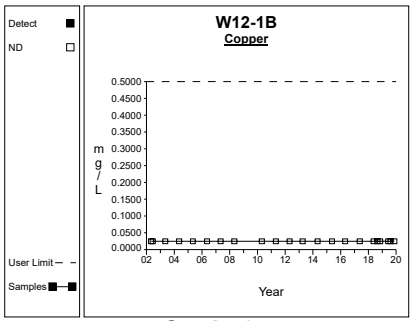
Graph 56



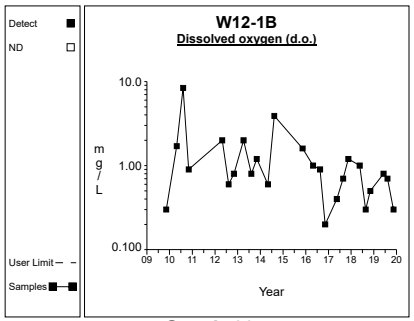
Graph 57



Graph 58

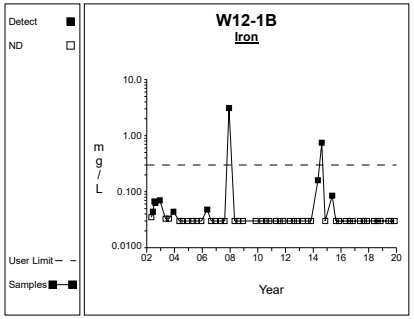


Graph 59

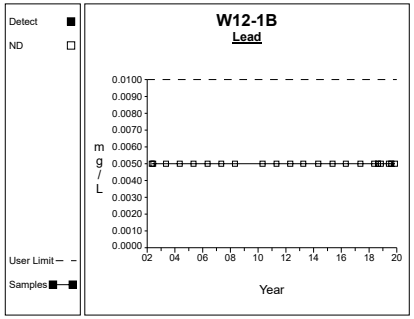


Graph 60

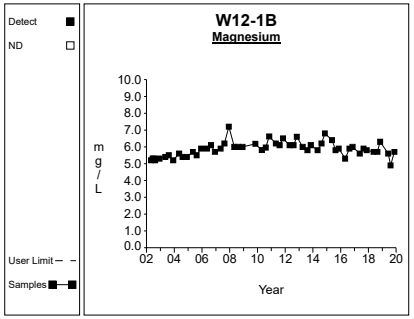
Time Series



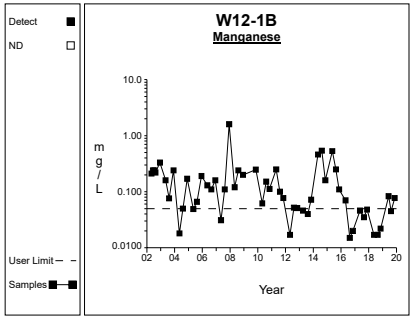
Graph 61



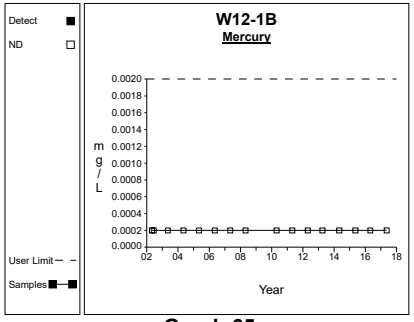
Graph 62



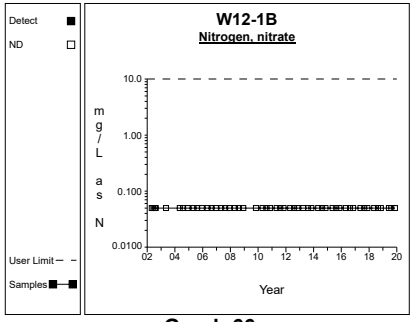
Graph 63



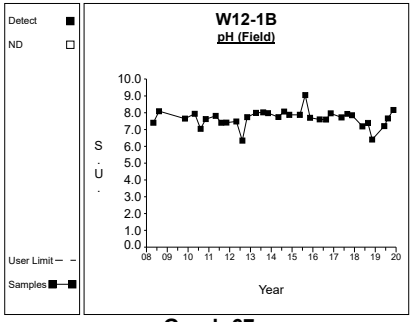
Graph 64



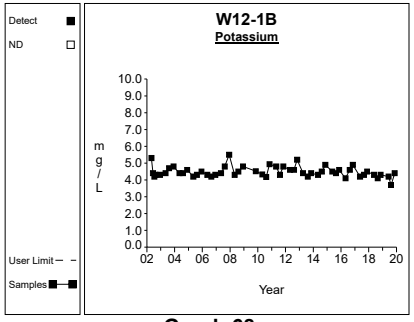
Graph 65



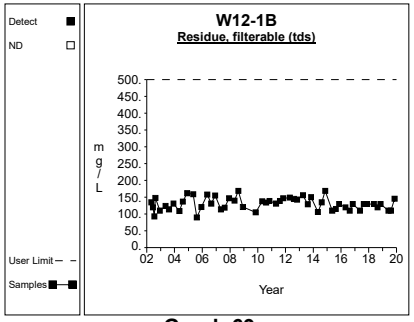
Graph 66



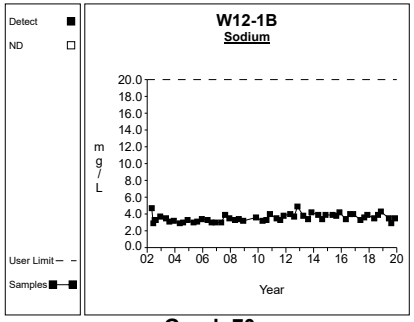
Graph 67



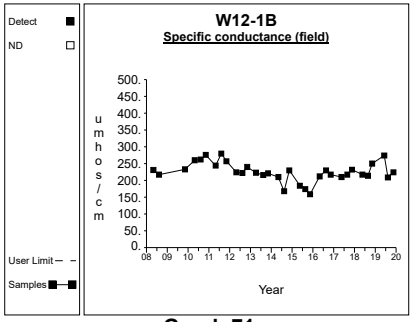
Graph 68



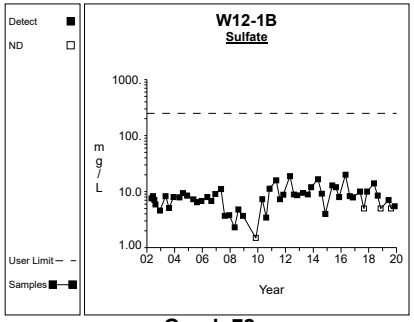
Graph 69



Graph 70

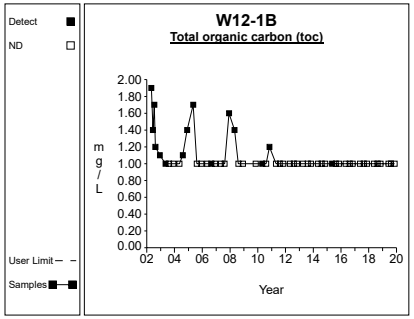


Graph 71

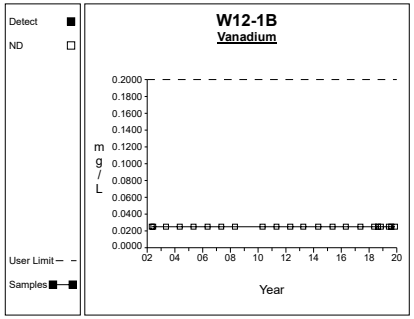


Graph 72

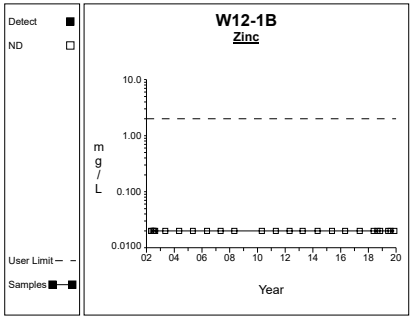
Time Series



Graph 73



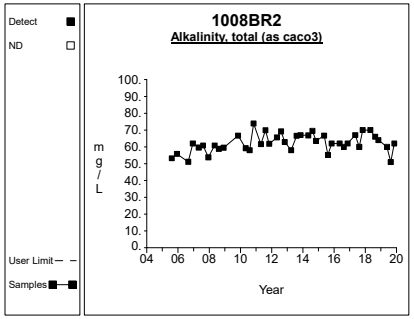
Graph 74



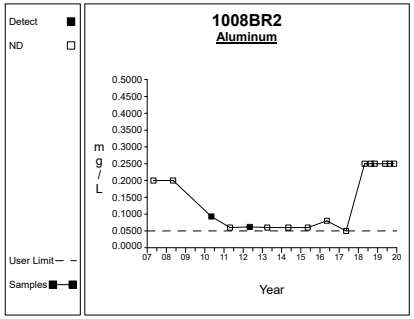
Graph 75

Downgradient Wells – Till Zone

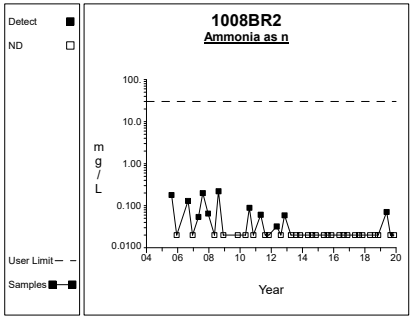
Time Series



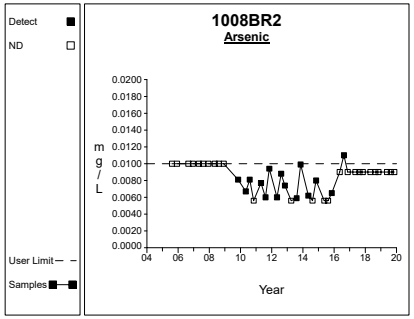
Graph 1



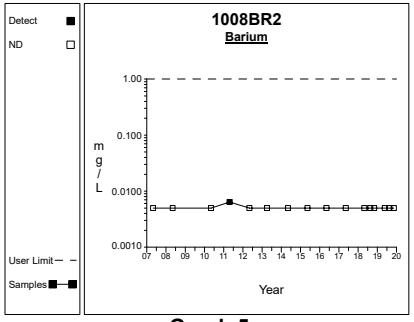
Graph 2



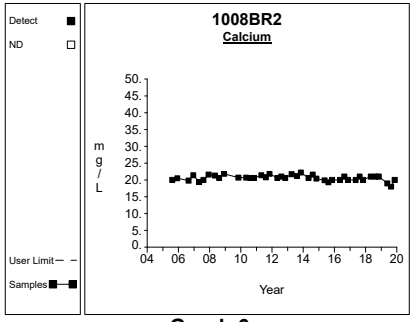
Graph 3



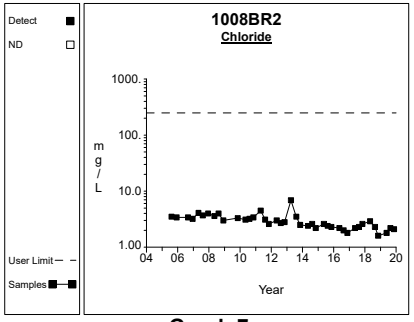
Graph 4



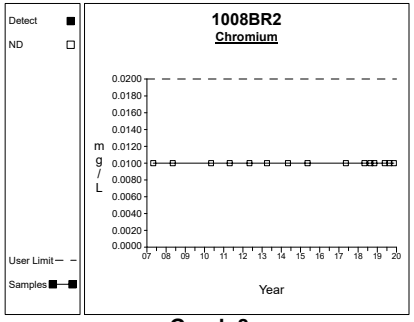
Graph 5



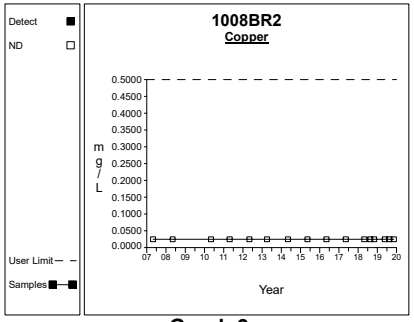
Graph 6



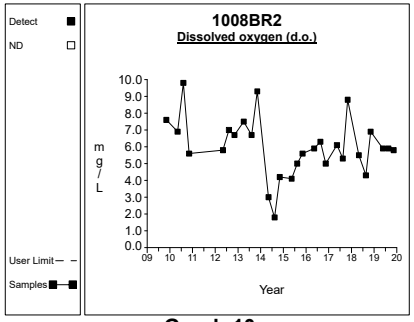
Graph 7



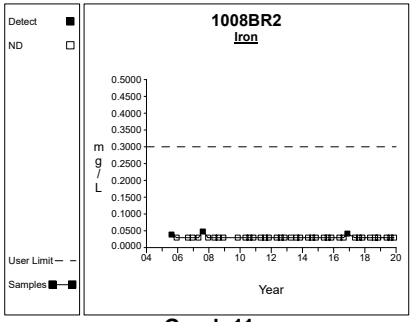
Graph 8



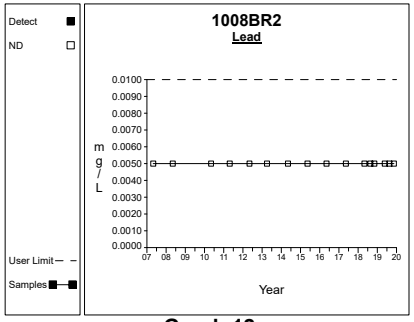
Graph 9



Graph 10

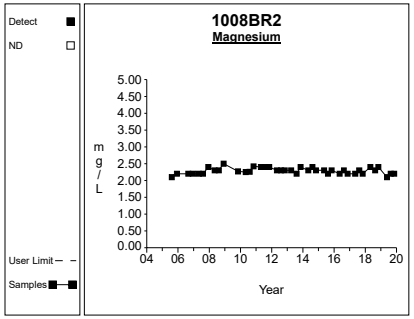


Graph 11

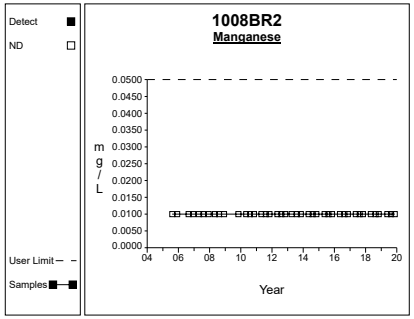


Graph 12

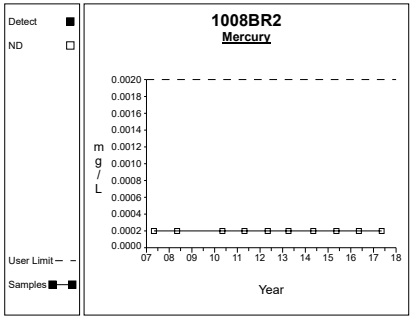
Time Series



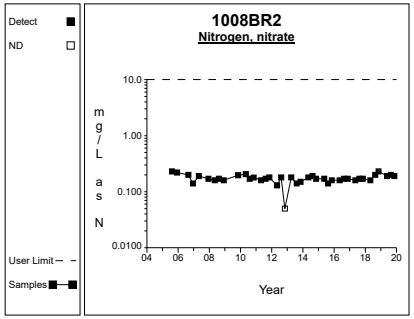
Graph 13



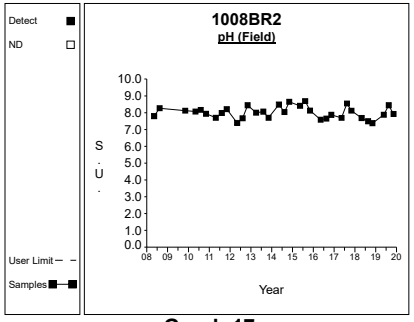
Graph 14



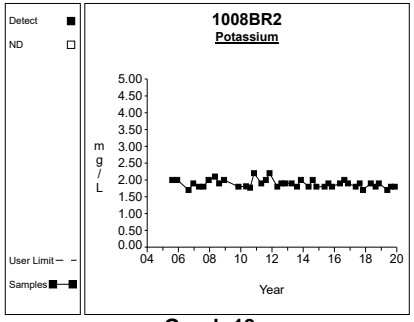
Graph 15



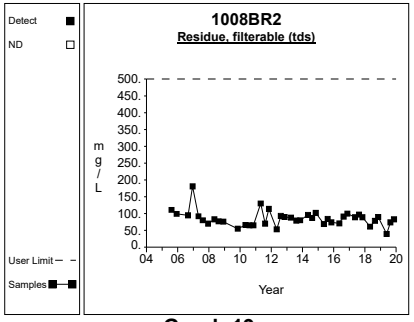
Graph 16



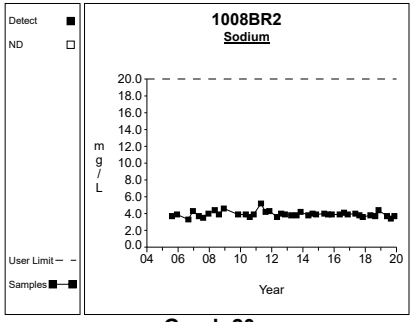
Graph 17



Graph 18



Graph 19



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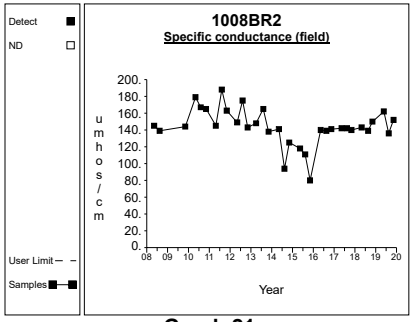
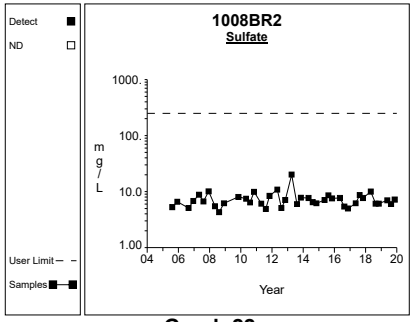
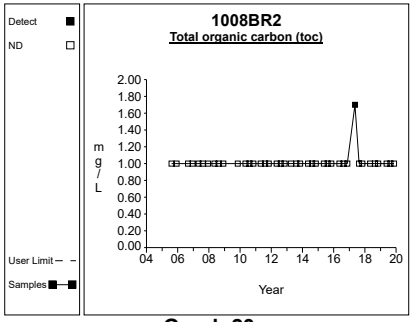


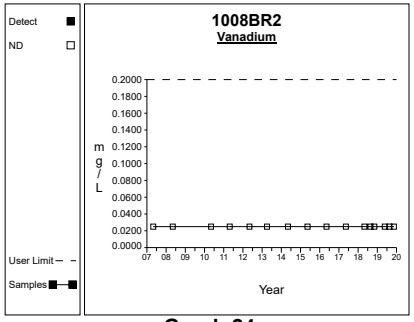
Graph 21



Graph 22

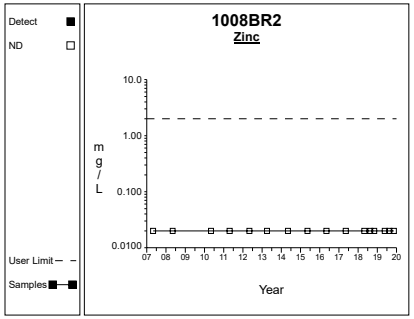


Graph 23

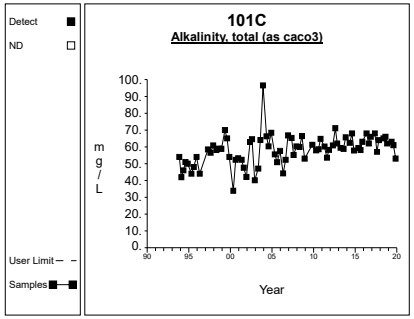


Graph 24

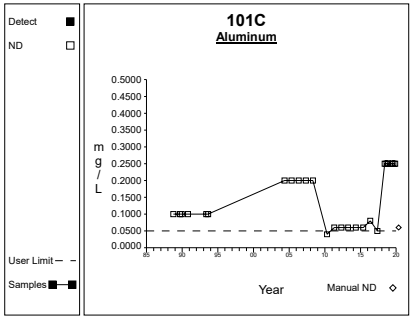
Time Series



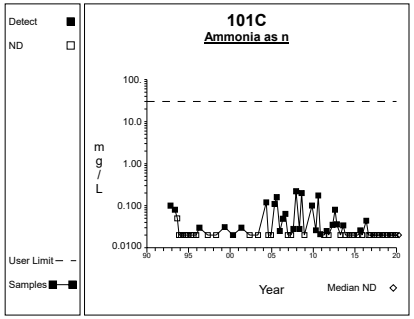
Graph 25



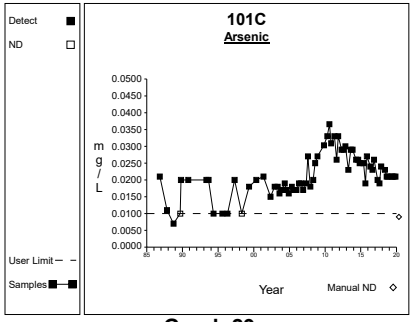
Graph 26



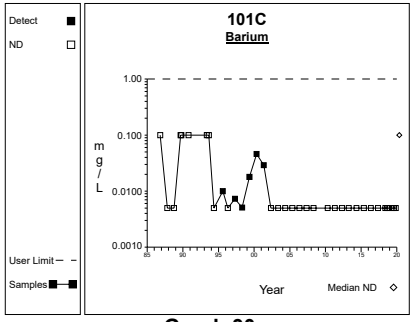
Graph 27



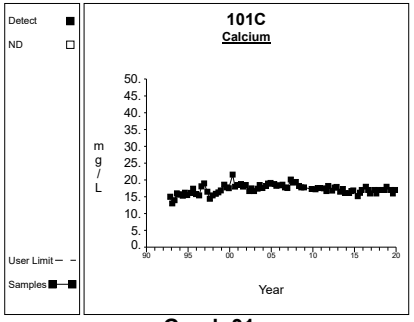
Graph 28



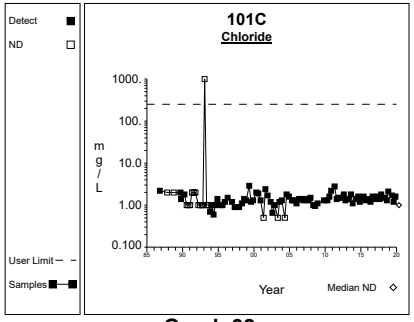
Graph 29



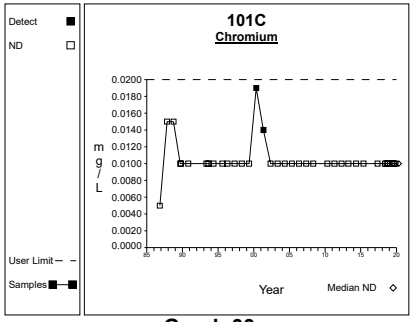
Graph 30



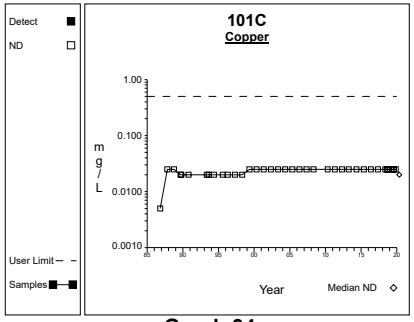
Graph 31



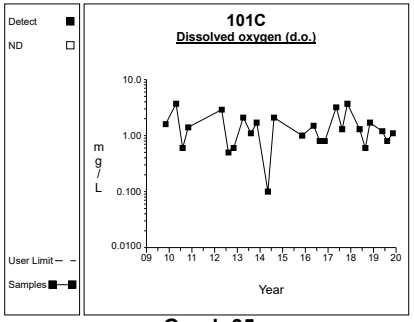
Graph 32



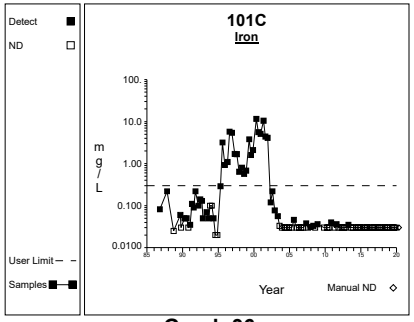
Graph 33



Graph 34

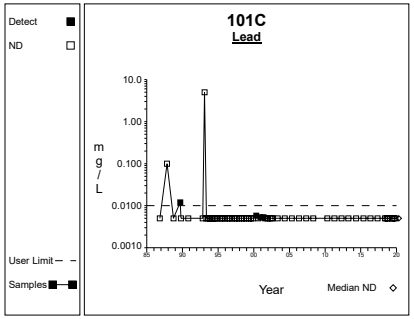


Graph 35

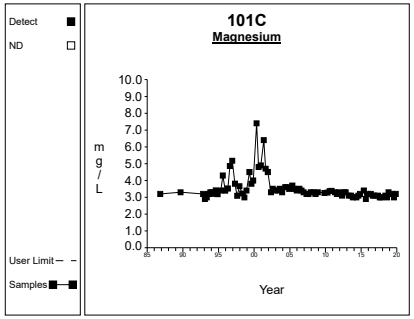


Graph 36

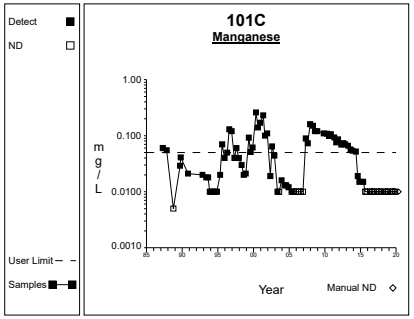
Time Series



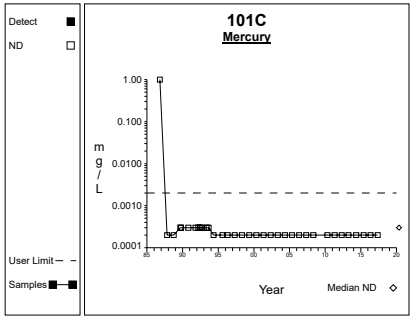
Graph 37



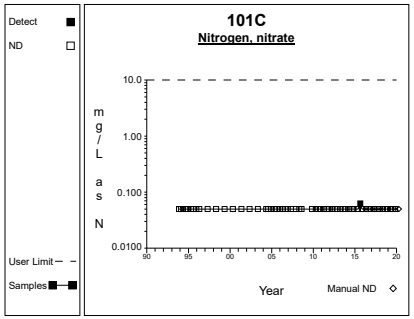
Graph 38



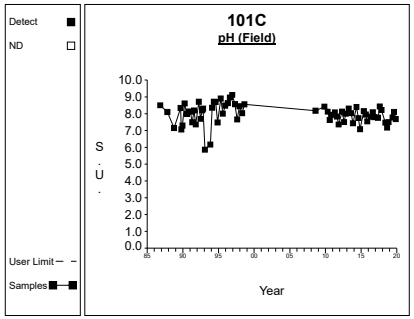
Graph 39



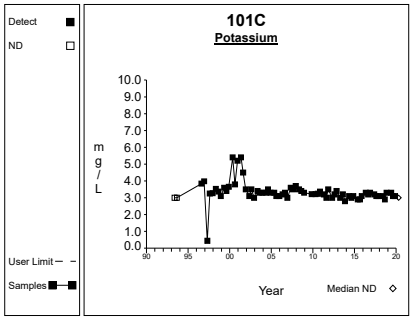
Graph 40



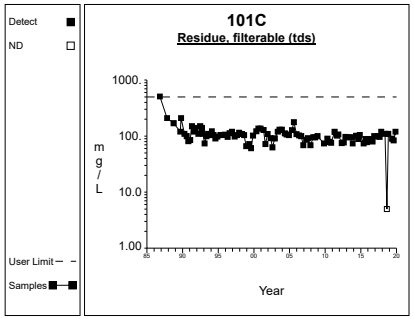
Graph 41



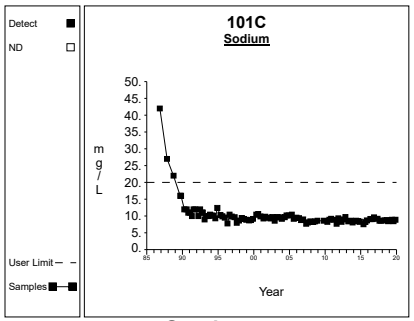
Graph 42



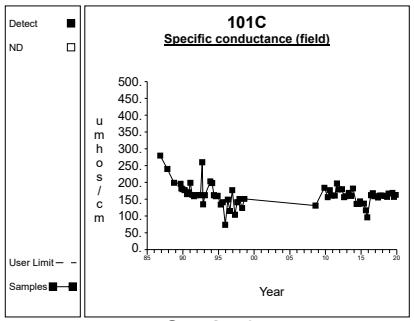
Graph 43



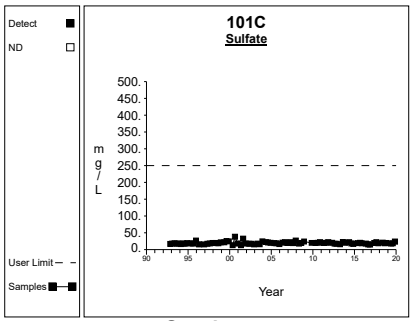
Graph 44



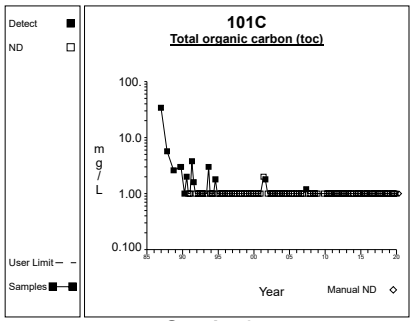
Graph 45



Graph 46

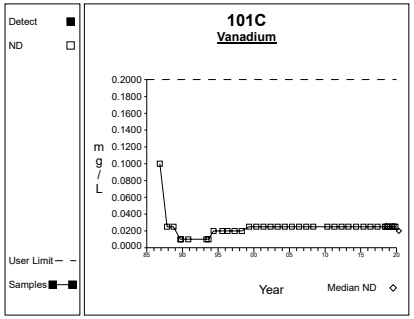


Graph 47

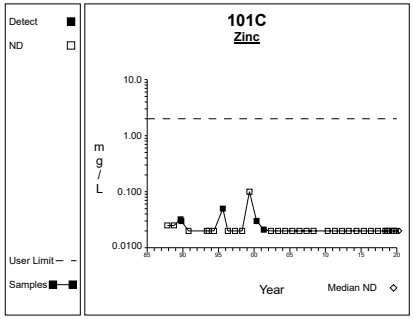


Graph 48

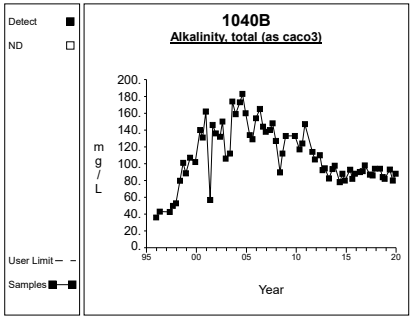
Time Series



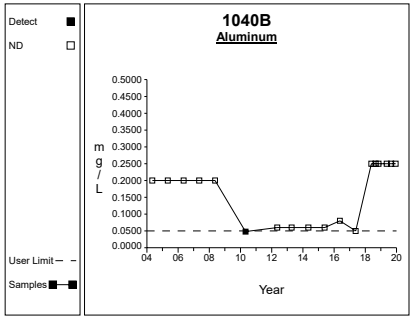
Graph 49



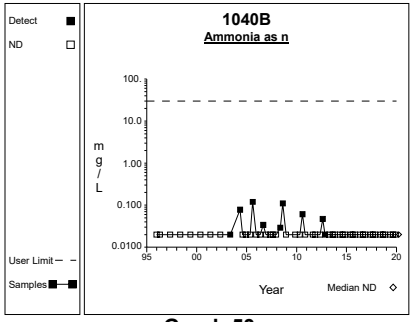
Graph 50



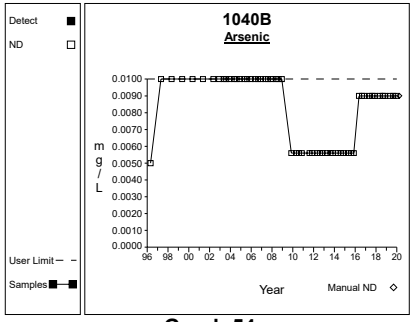
Graph 51



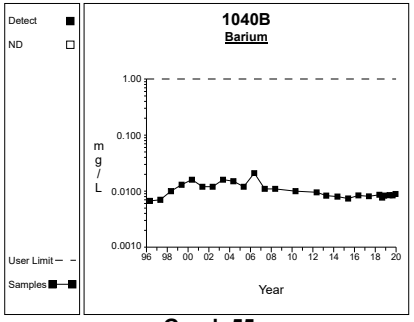
Graph 52



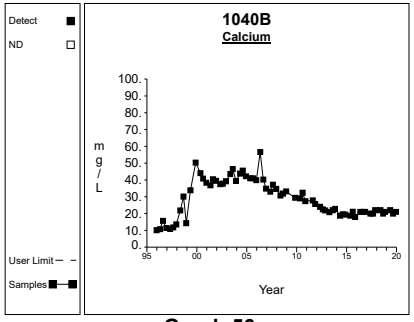
Graph 53



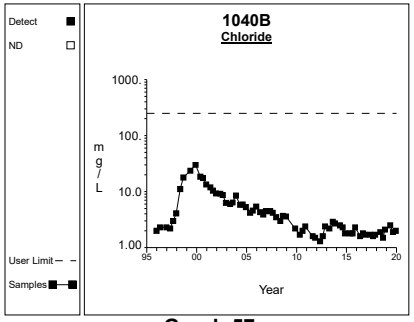
Graph 54



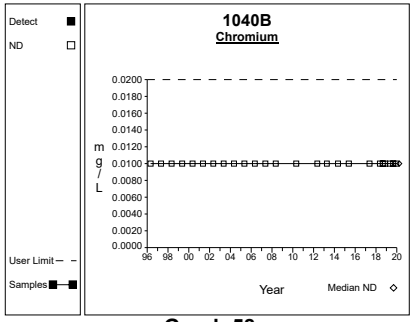
Graph 55



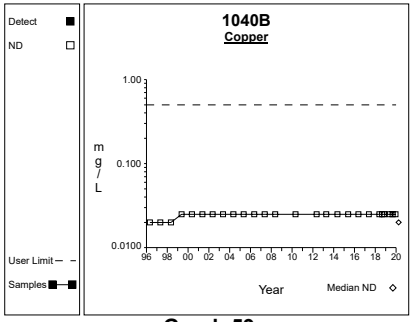
Graph 56



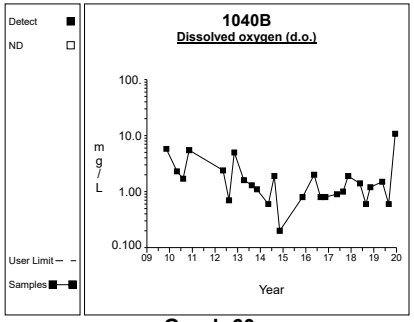
Graph 57



Graph 58

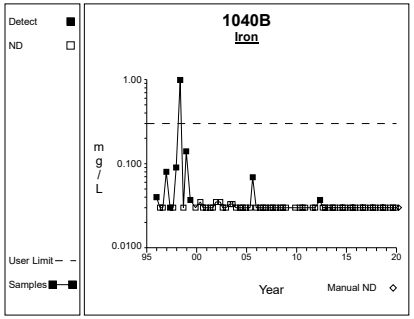


Graph 59

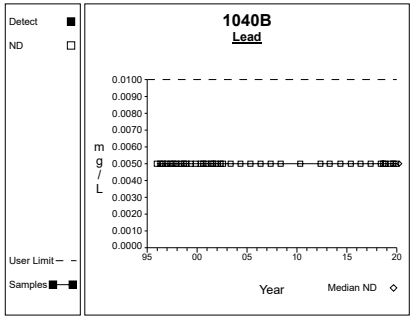


Graph 60

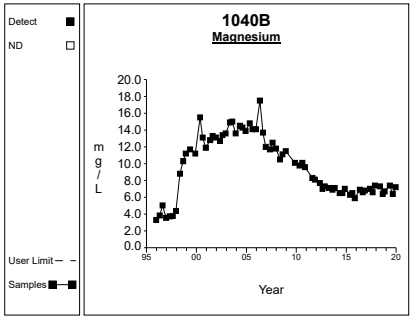
Time Series



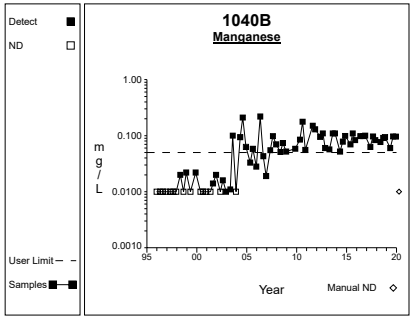
Graph 61



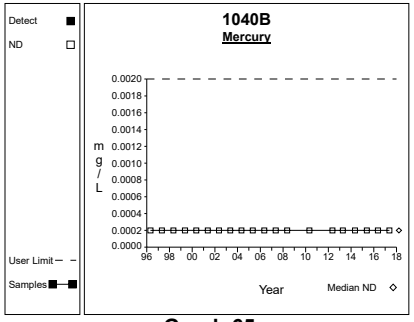
Graph 62



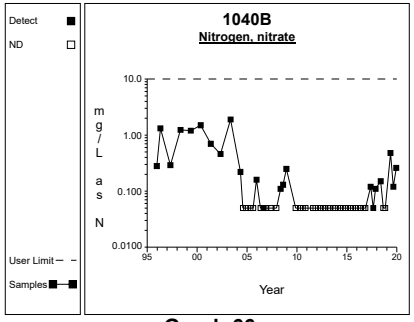
Graph 63



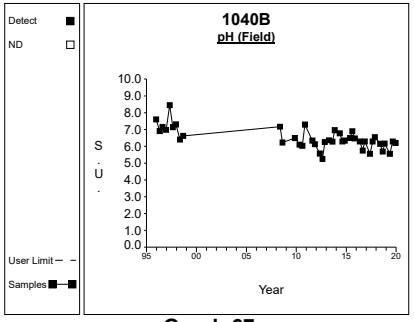
Graph 64



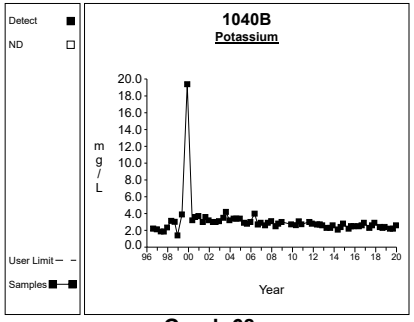
Graph 65



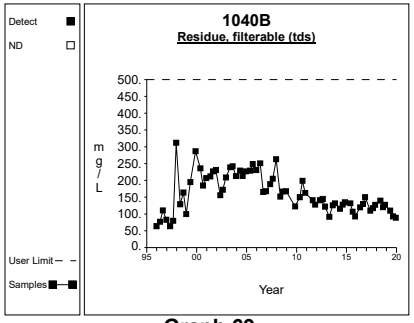
Graph 66



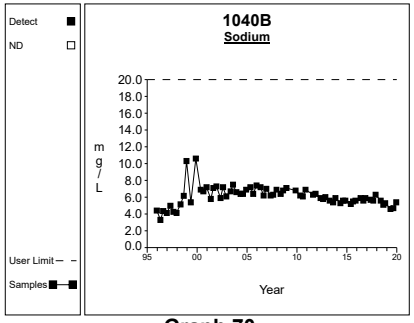
Graph 67



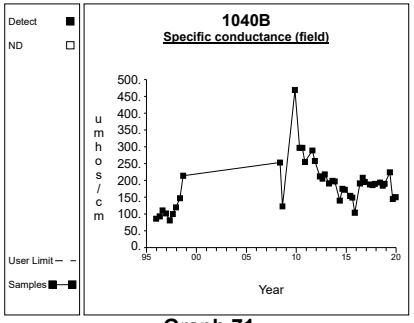
Graph 68



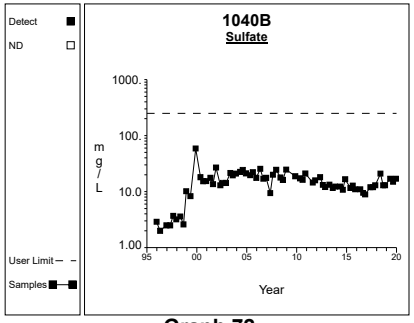
Graph 69



Graph 70

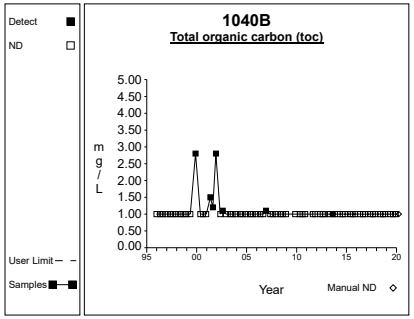


Graph 71

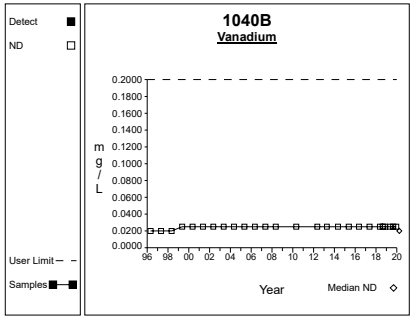


Graph 72

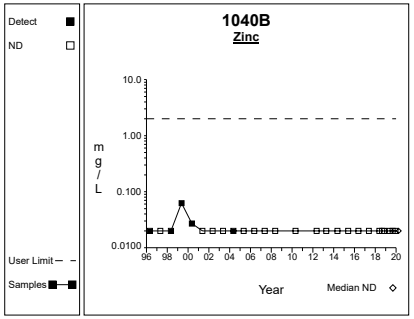
Time Series



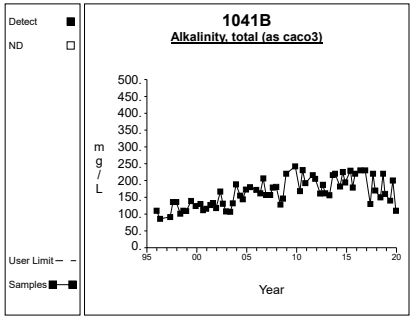
Graph 73



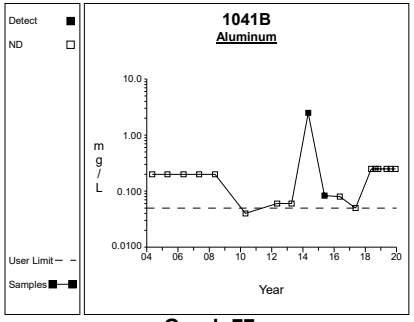
Graph 74



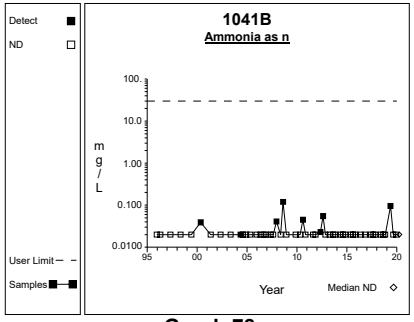
Graph 75



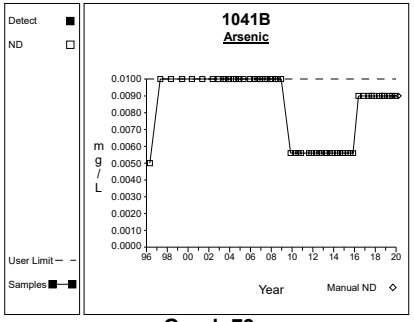
Graph 76



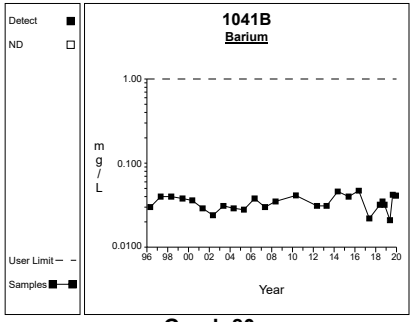
Graph 77



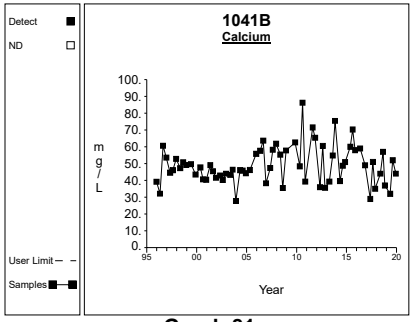
Graph 78



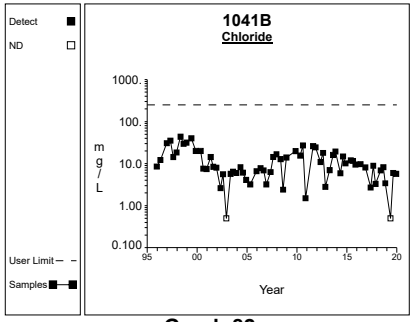
Graph 79



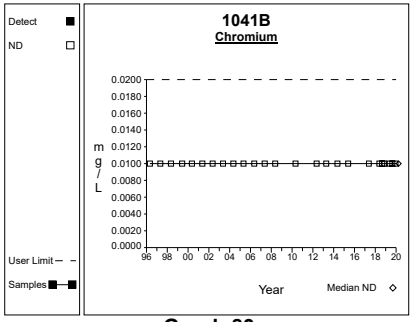
Graph 80



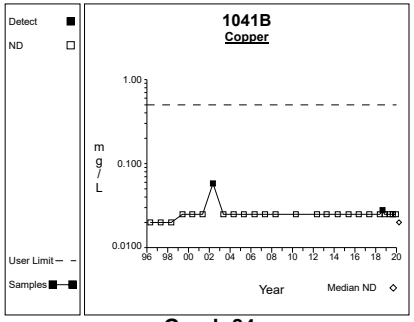
Graph 81



Graph 82

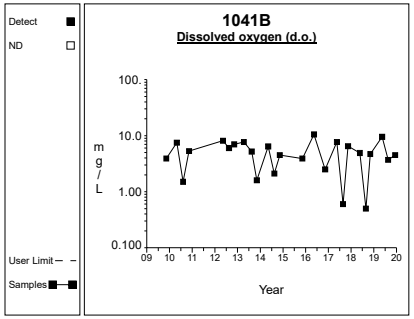


Graph 83

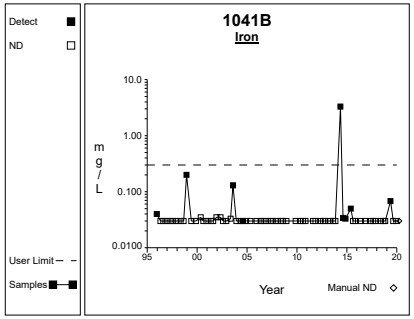


Graph 84

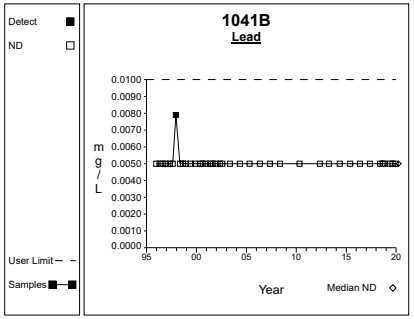
Time Series



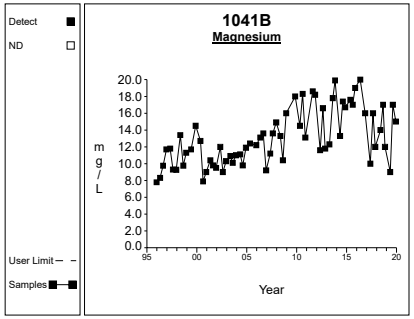
Graph 85



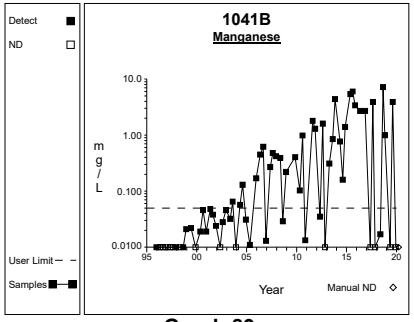
Graph 86



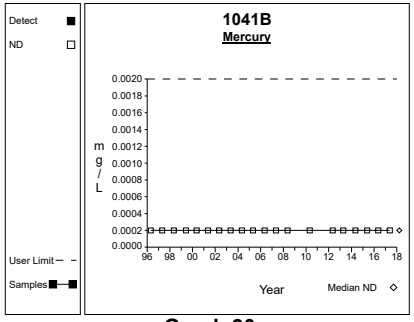
Graph 87



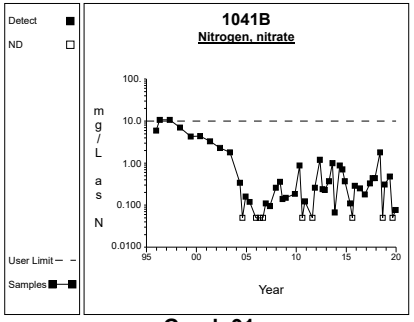
Graph 88



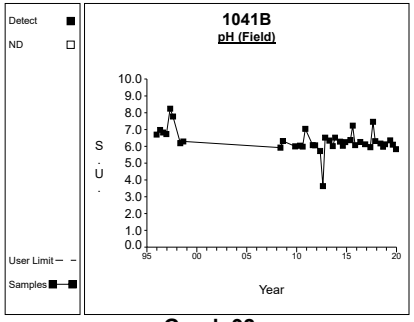
Graph 89



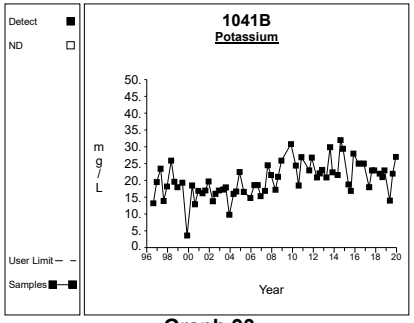
Graph 90



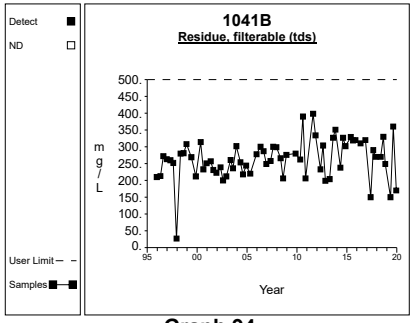
Graph 91



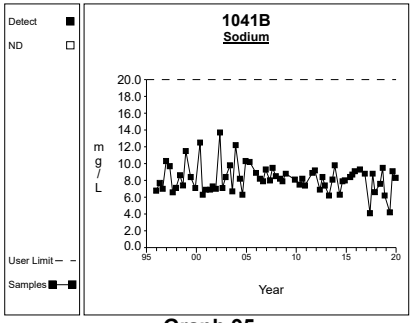
Graph 92



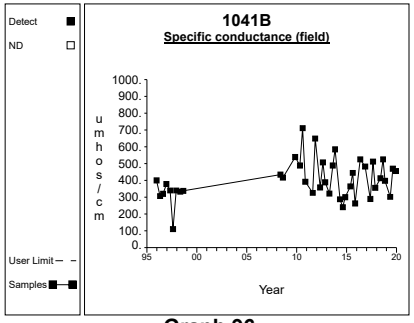
Graph 93



Graph 94

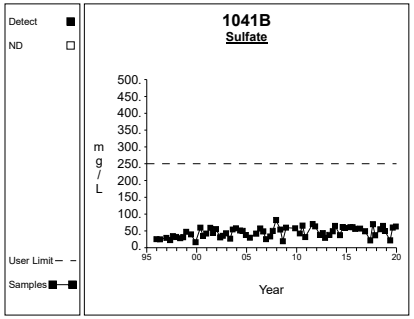


Graph 95

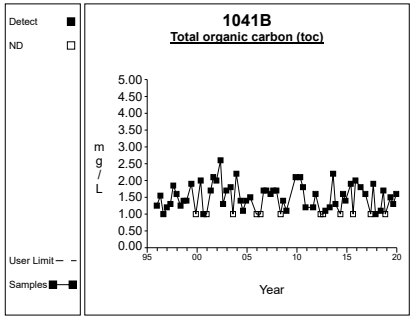


Graph 96

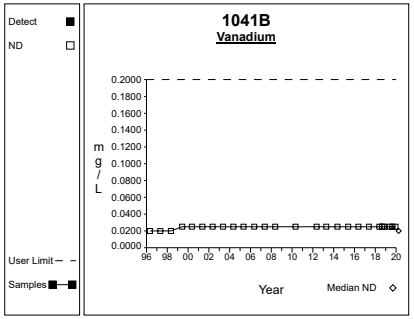
Time Series



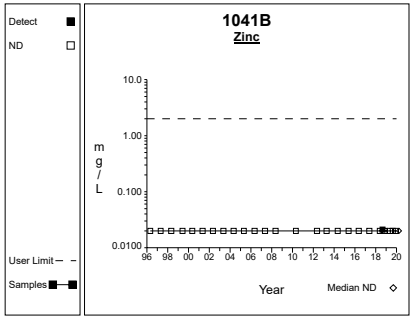
Graph 97



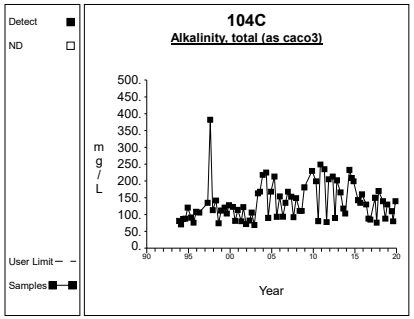
Graph 98



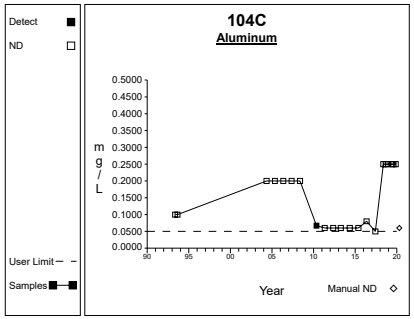
Graph 99



Graph 100



Graph 101



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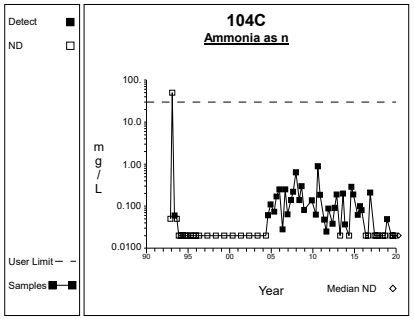
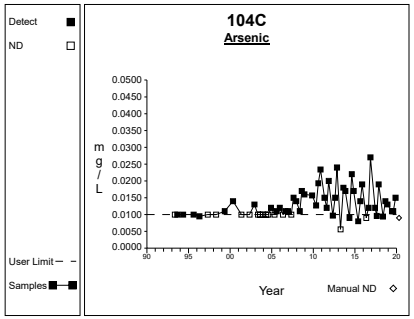
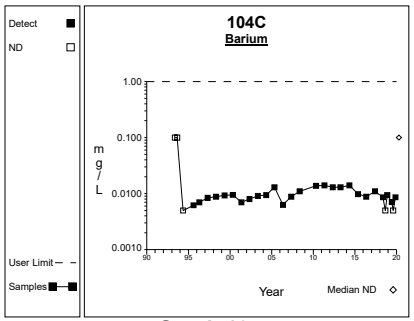


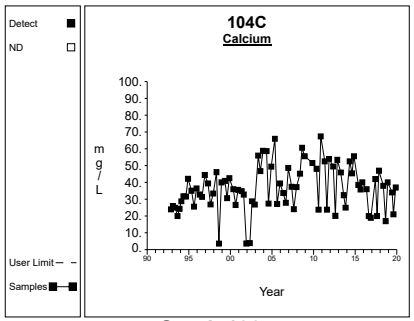
Graph 103



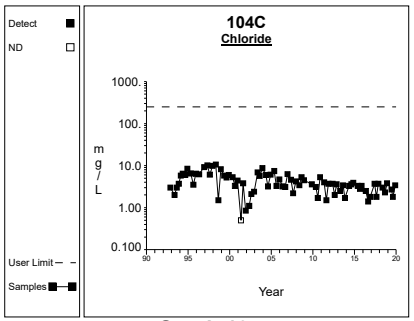
Graph 104



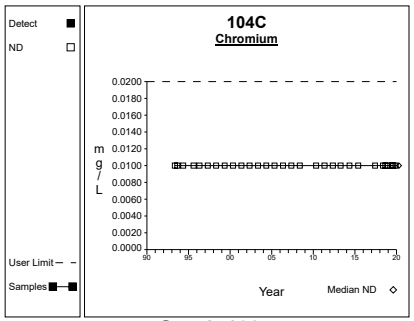
Graph 105



Graph 106

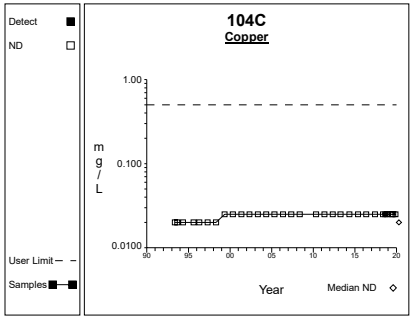


Graph 107

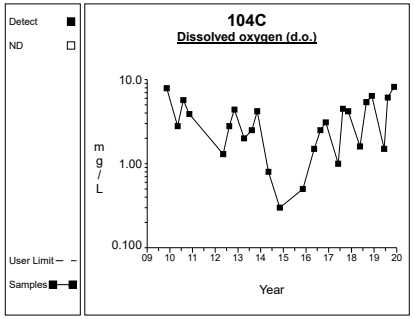


Graph 108

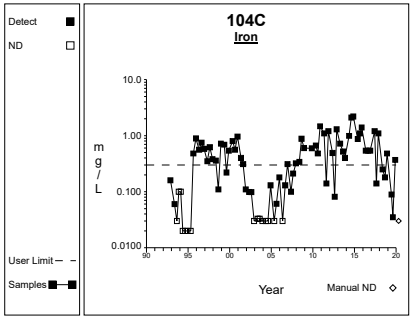
Time Series



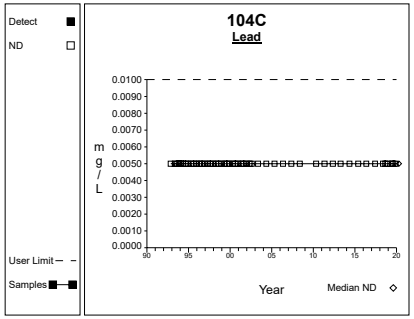
Graph 109



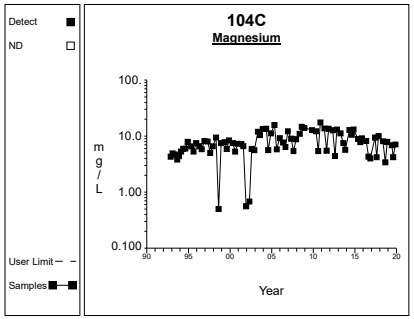
Graph 110



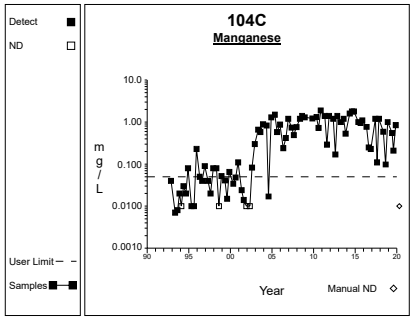
Graph 111



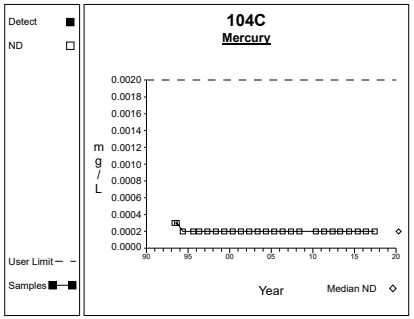
Graph 112



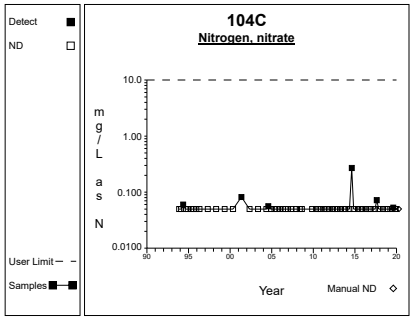
Graph 113



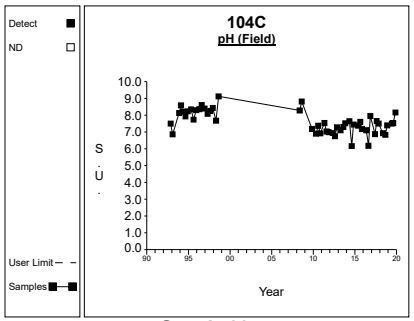
Graph 114



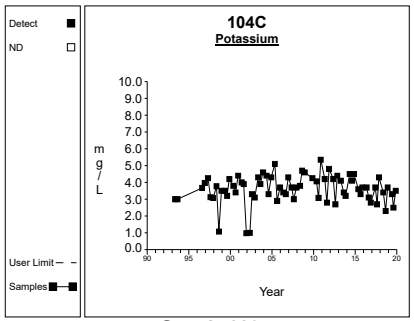
Graph 115



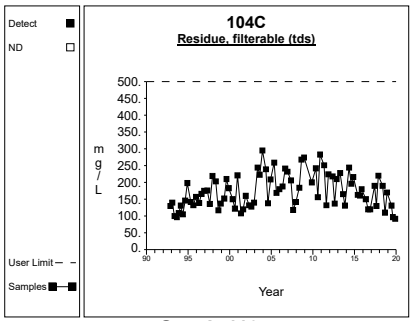
Graph 116



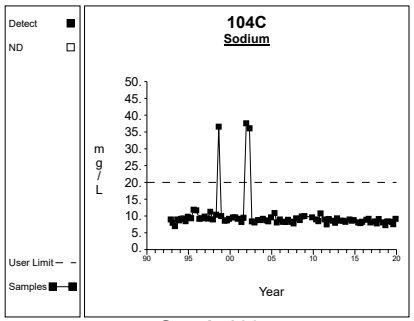
Graph 117



Graph 118

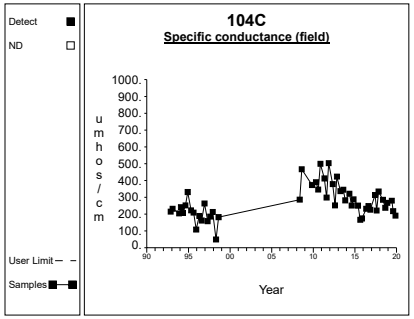


Graph 119

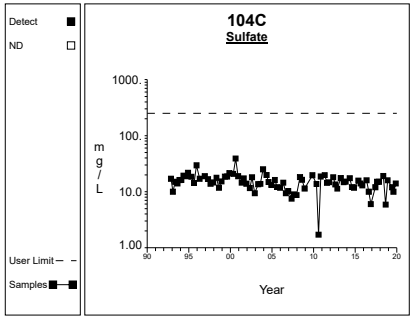


Graph 120

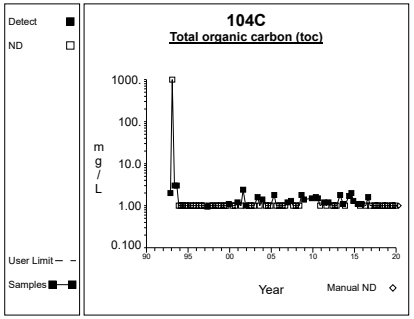
Time Series



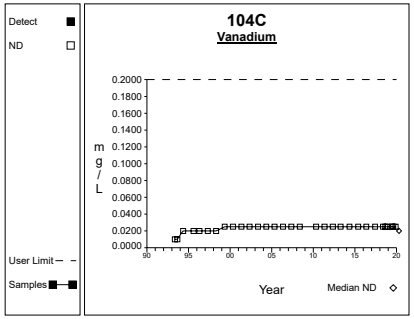
Graph 121



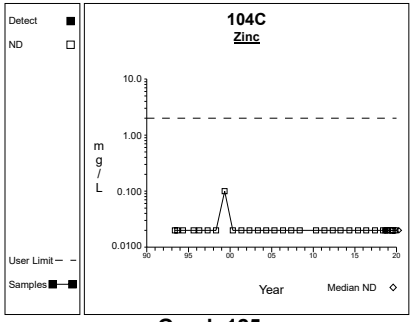
Graph 122



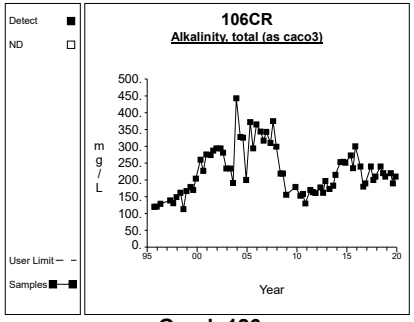
Graph 123



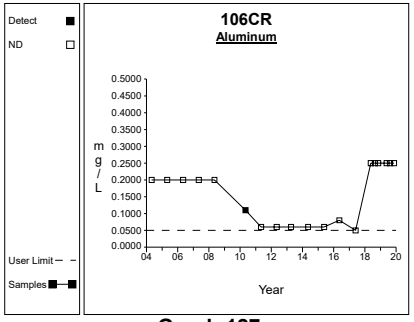
Graph 124



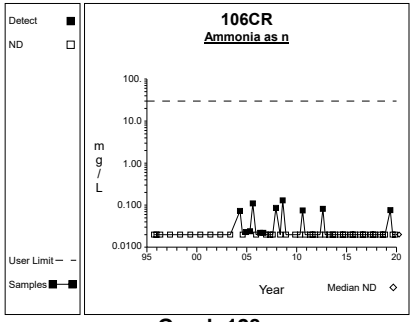
Graph 125



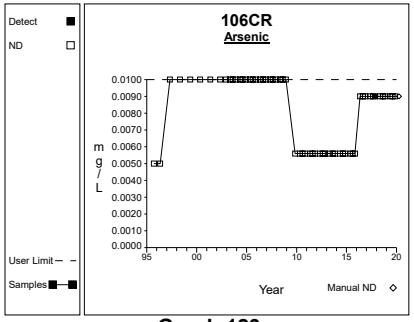
Graph 126



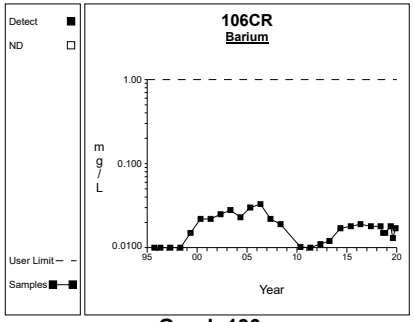
Graph 127



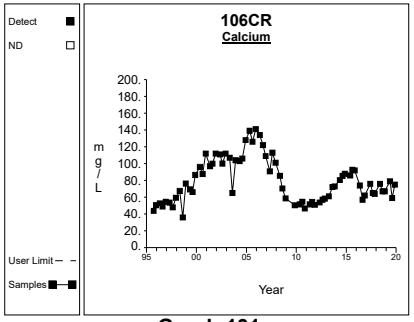
Graph 128



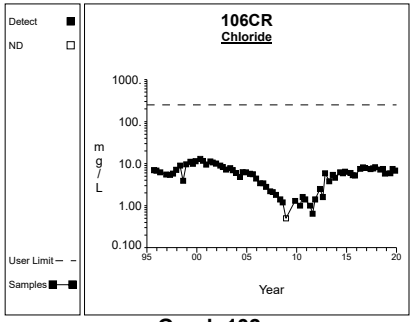
Graph 129



Graph 130

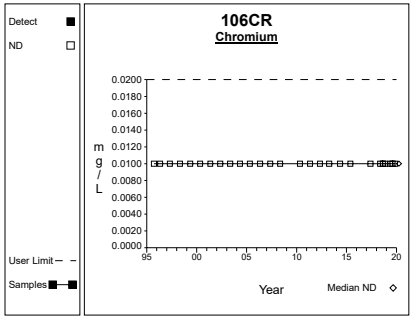


Graph 131

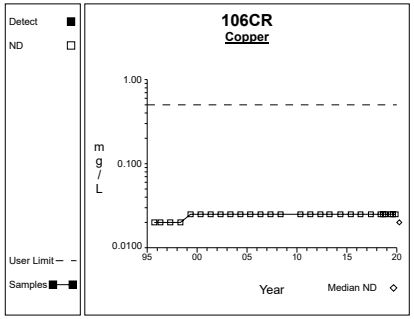


Graph 132

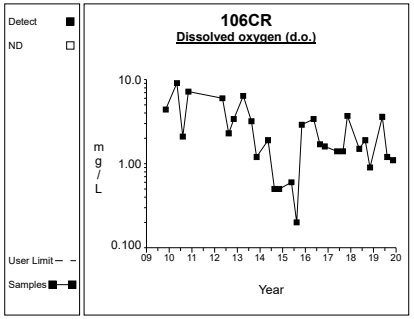
Time Series



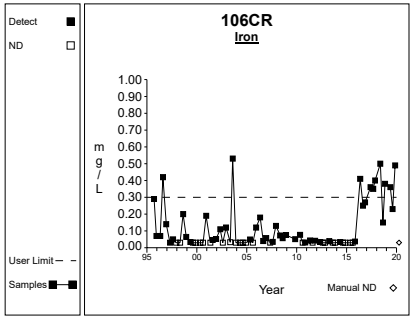
Graph 133



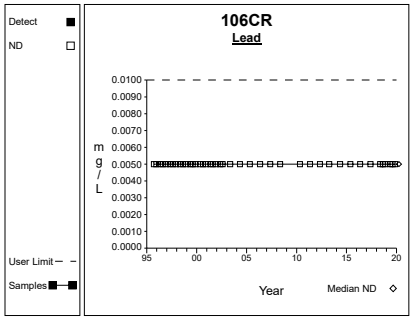
Graph 134



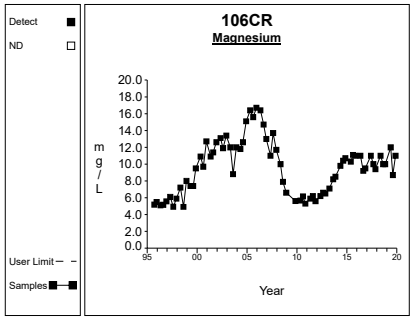
Graph 135



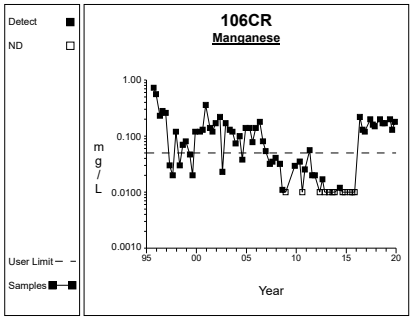
Graph 136



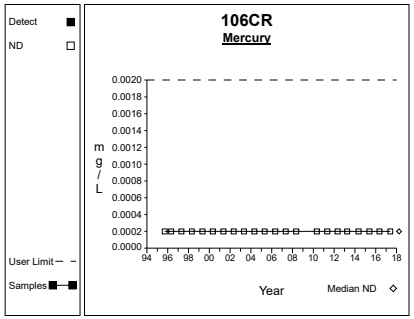
Graph 137



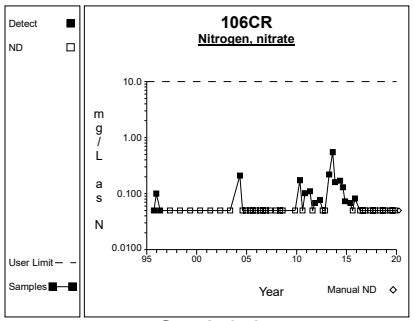
Graph 138



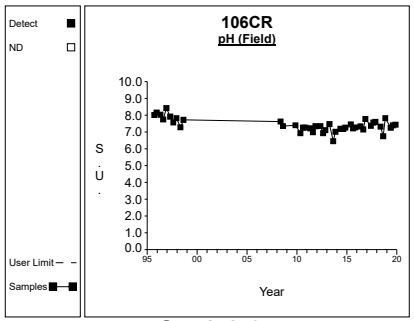
Graph 139



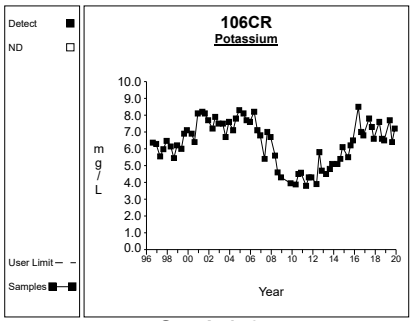
Graph 140



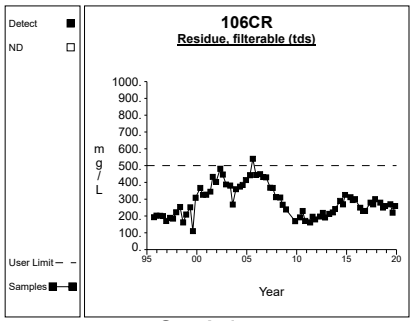
Graph 141



Graph 142

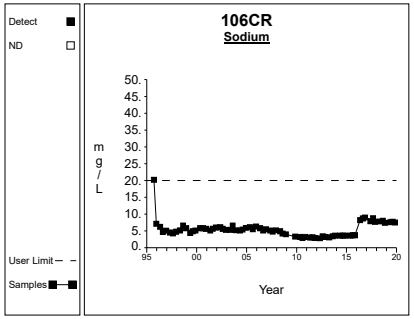


Graph 143

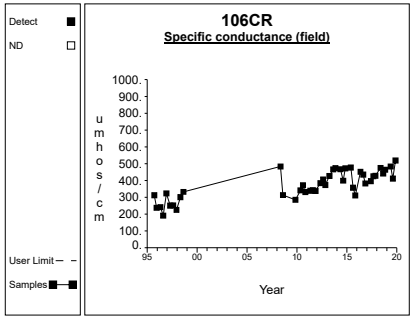


Graph 144

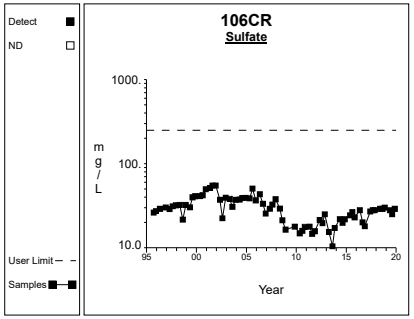
Time Series



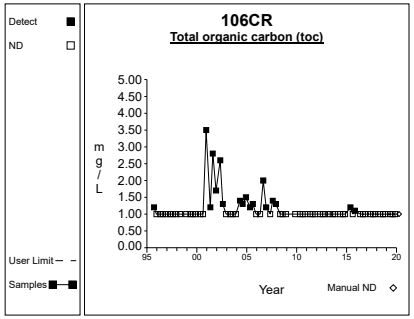
Graph 145



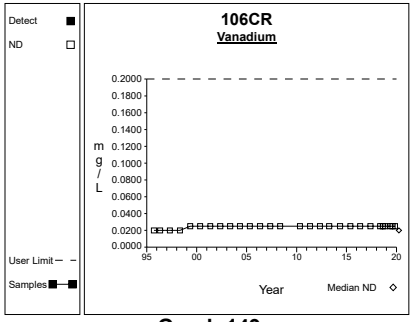
Graph 146



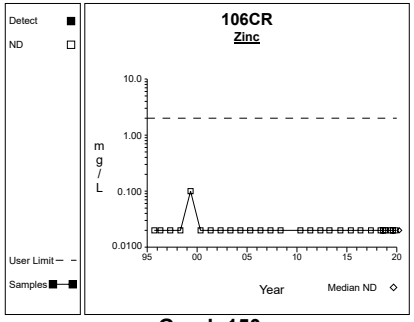
Graph 147



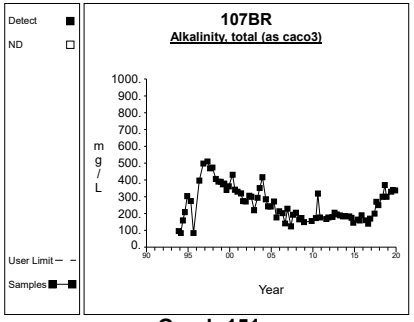
Graph 148



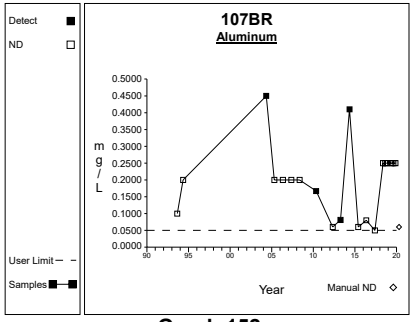
Graph 149



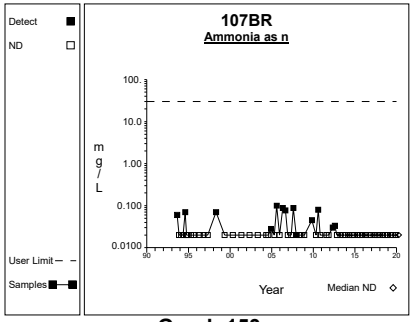
Graph 150



Graph 151



Graph 152



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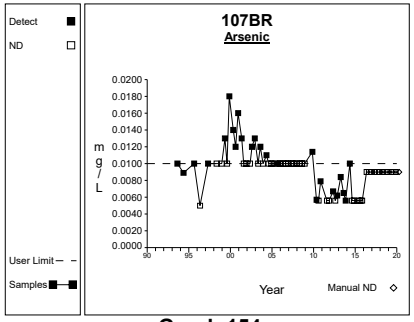

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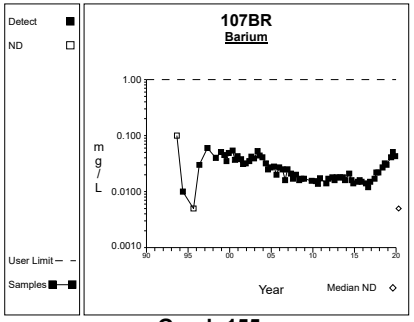
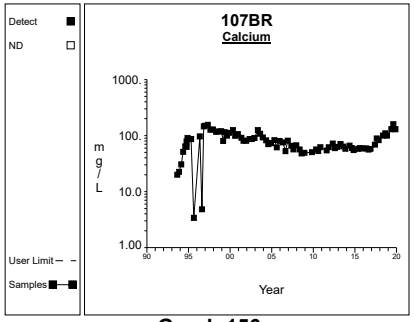
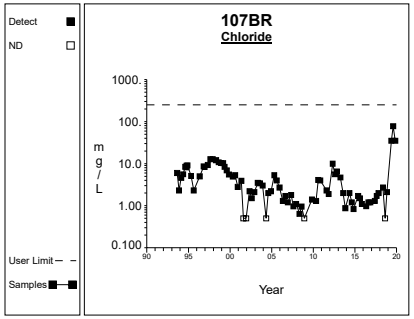


Graph 155

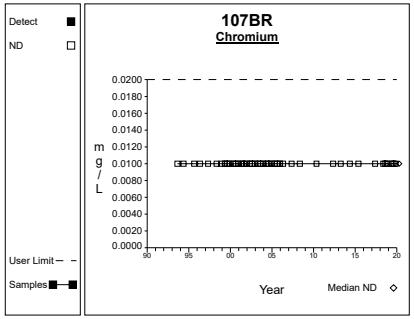


Graph 156

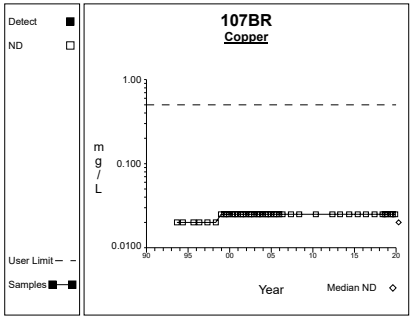
Time Series



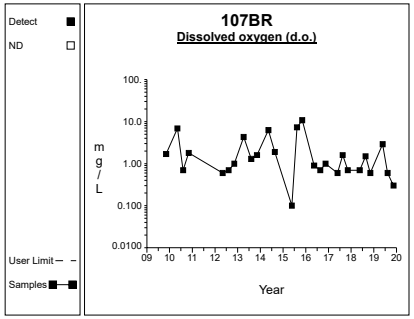
Graph 157



Graph 158



Graph 159



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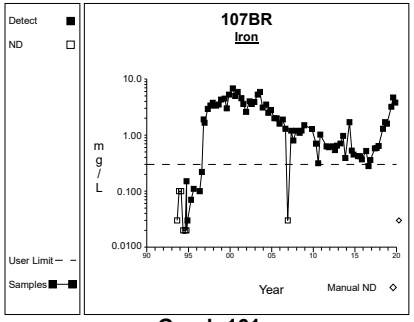

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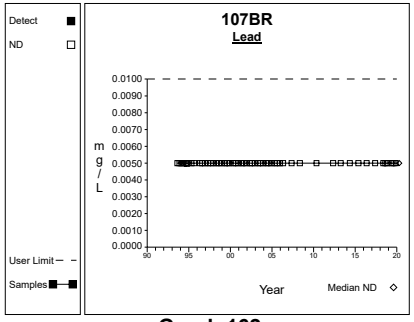

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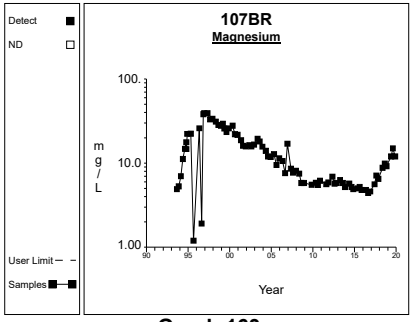
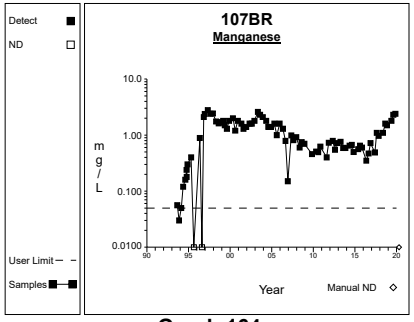


Graph 163



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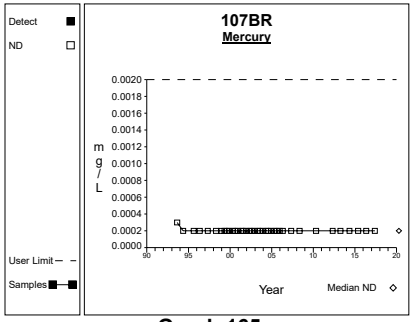

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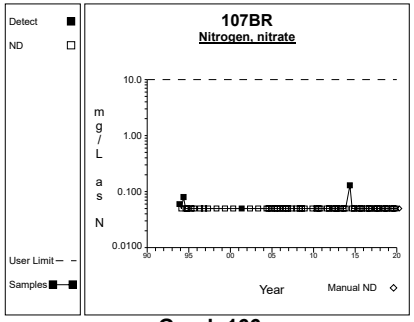
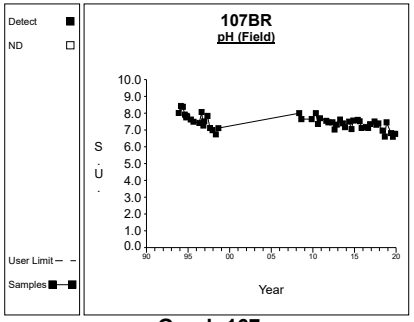
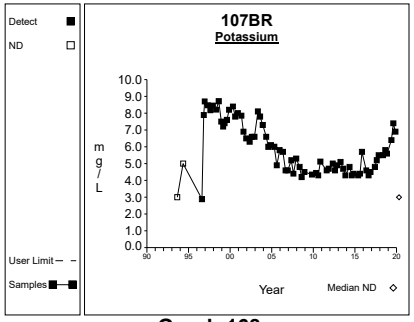


Graph 166

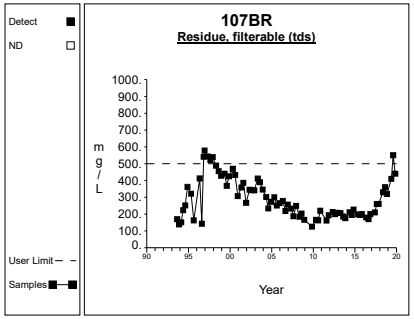


Graph 167

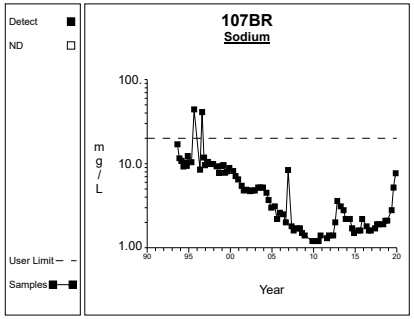


Graph 168

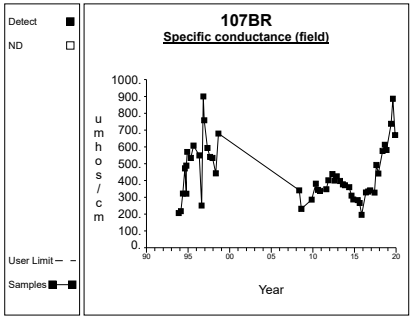
Time Series



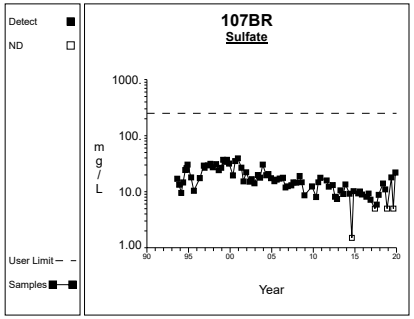
Graph 169



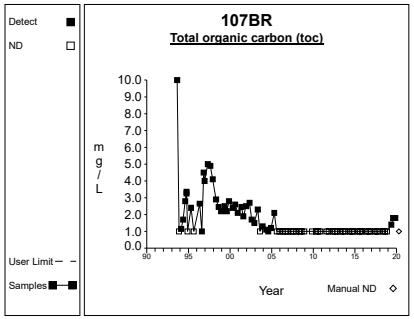
Graph 170



Graph 171



Graph 172



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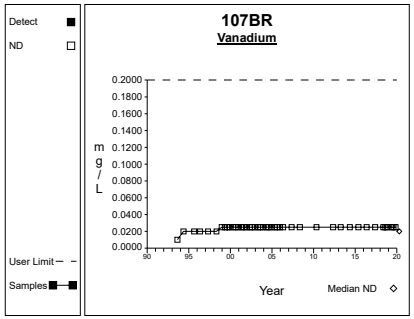

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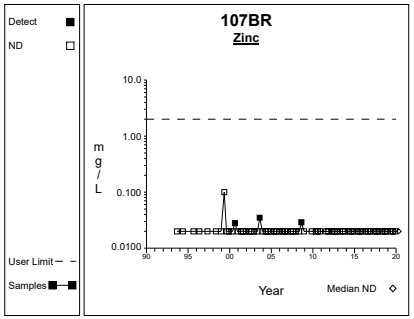
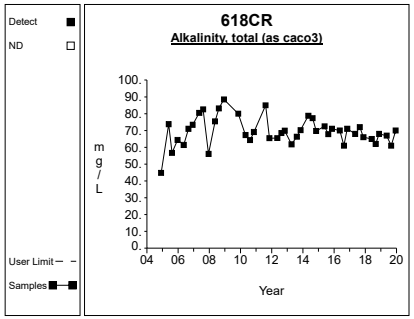


Graph 175



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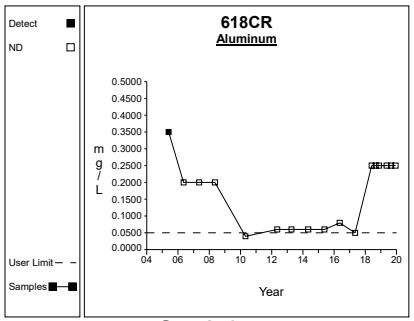
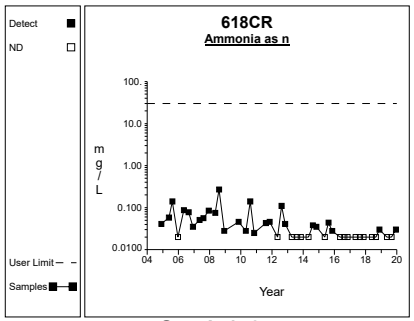
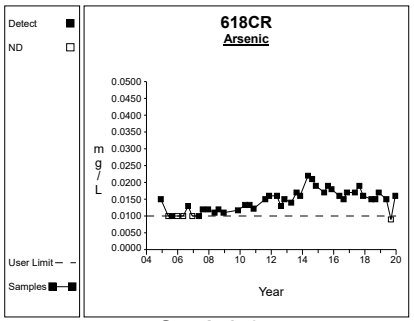


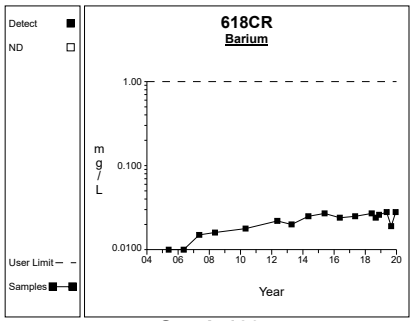
Graph 177



Graph 178

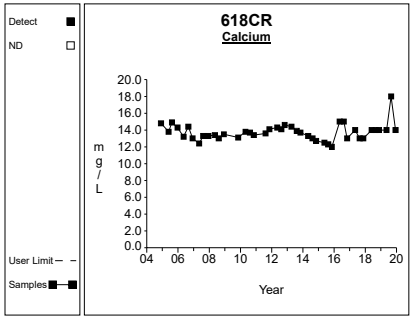


Graph 179

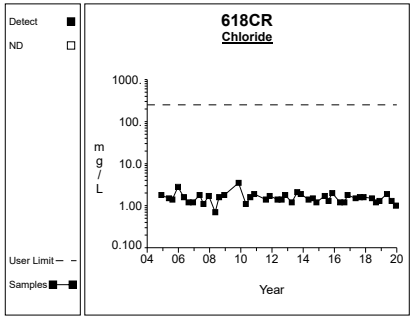


Graph 180

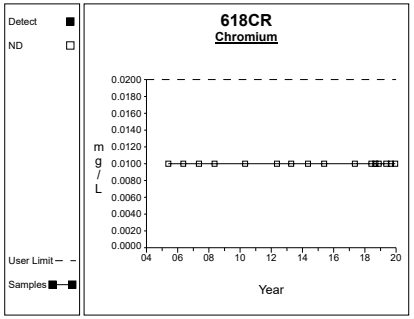
Time Series



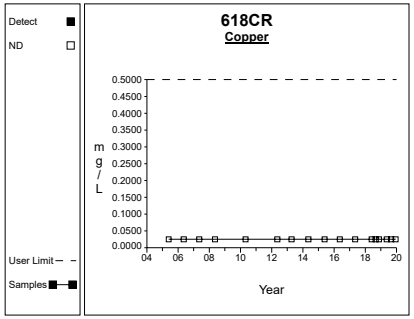
Graph 181



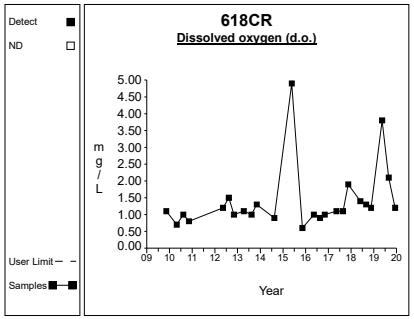
Graph 182



Graph 183



Graph 184



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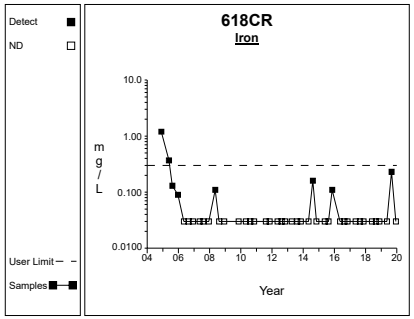
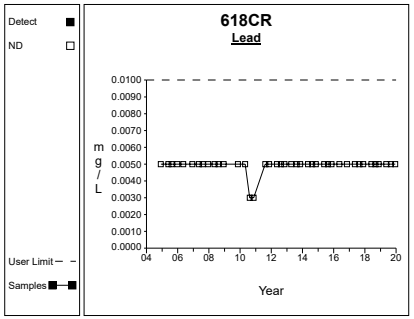
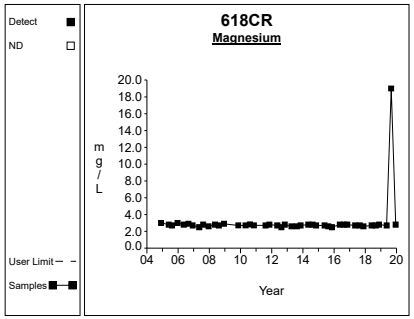


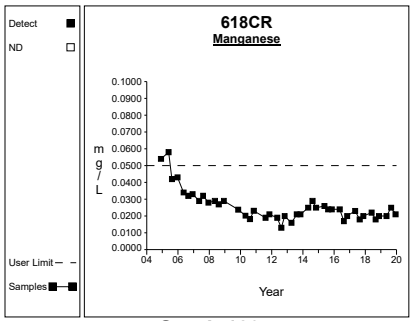
Graph 186



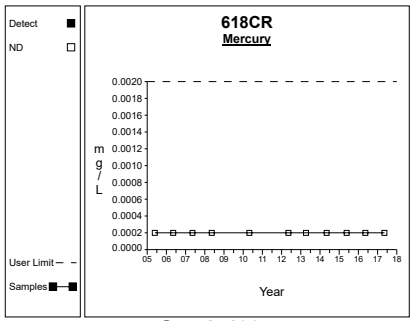
Graph 187



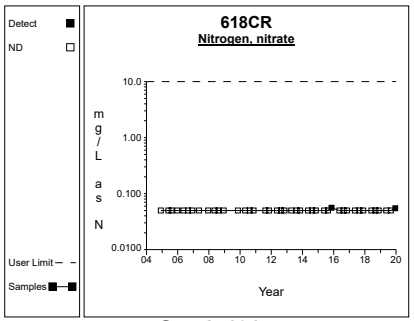
Graph 188



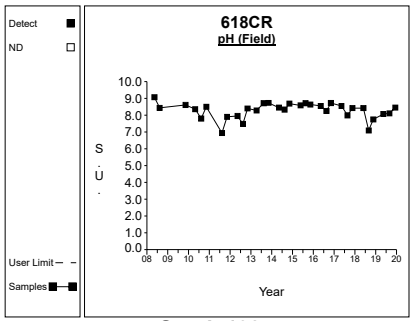
Graph 189



Graph 190

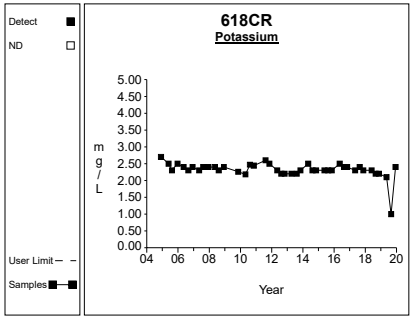


Graph 191

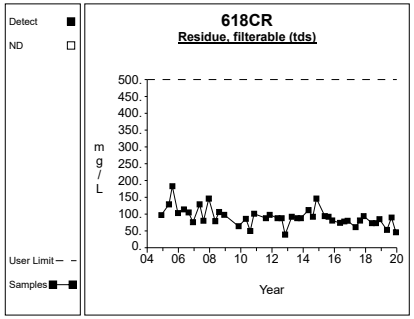


Graph 192

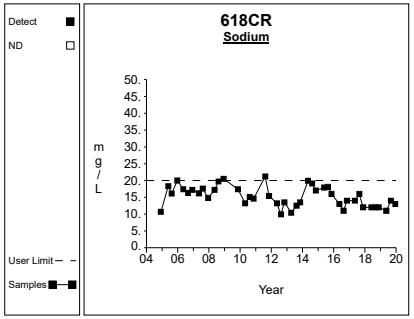
Time Series



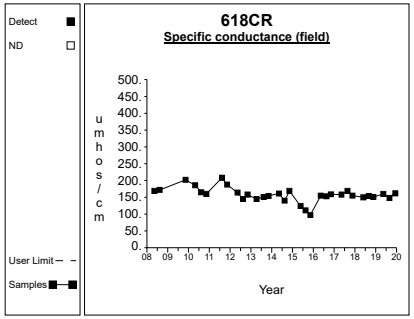
Graph 193



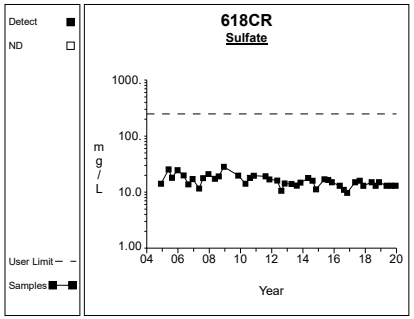
Graph 194



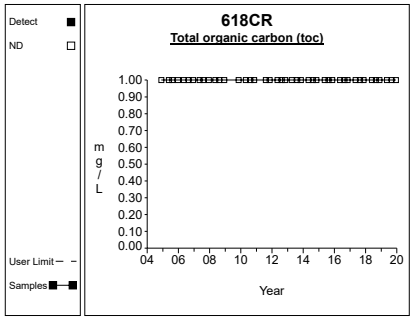
Graph 195



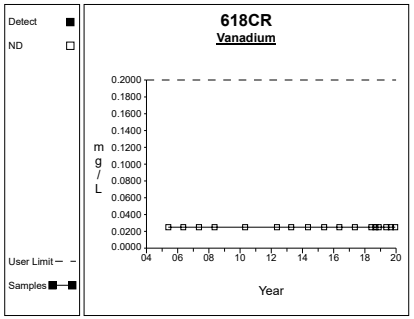
Graph 196



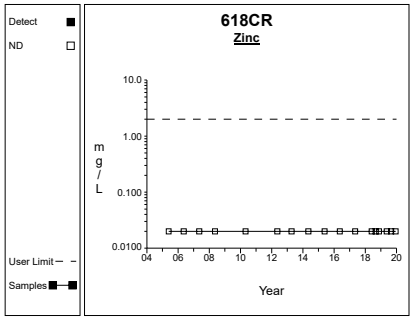
Graph 197



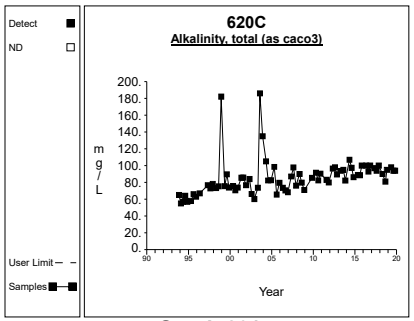
Graph 198



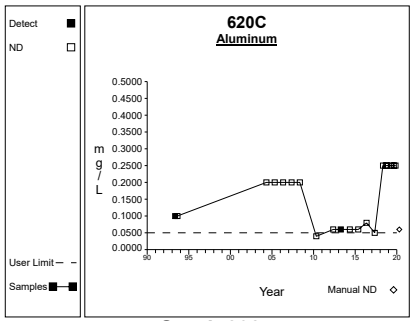
Graph 199



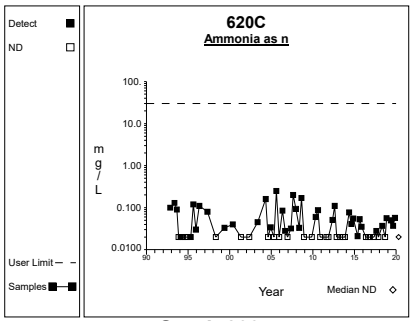
Graph 200



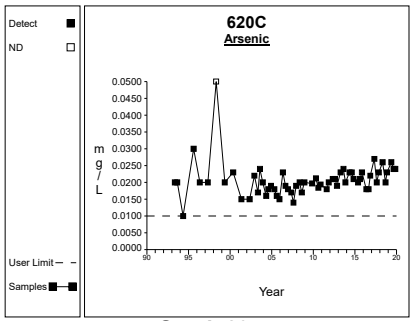
Graph 201



Graph 202

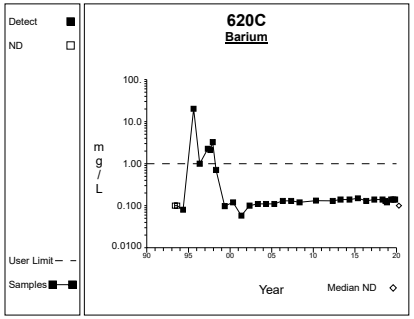


Graph 203

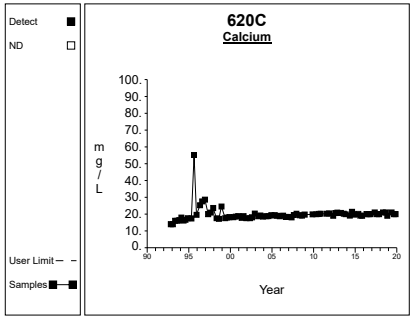


Graph 204

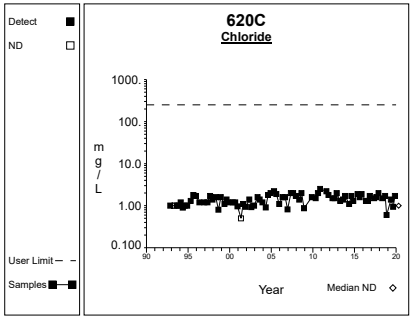
Time Series



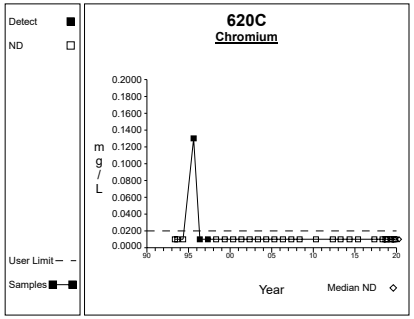
Graph 205



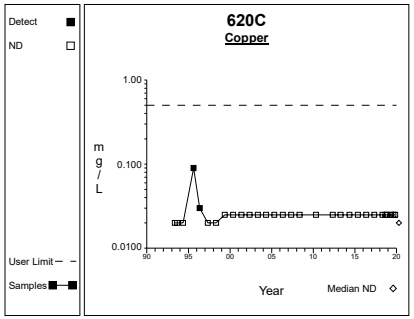
Graph 206



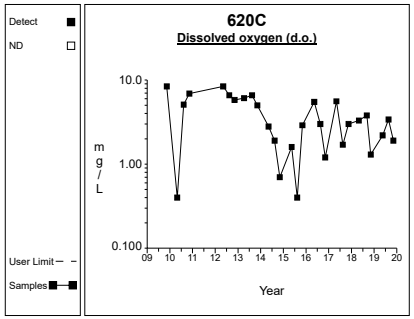
Graph 207



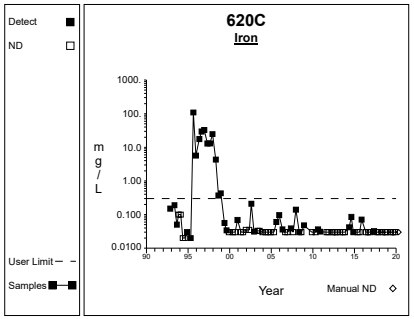
Graph 208



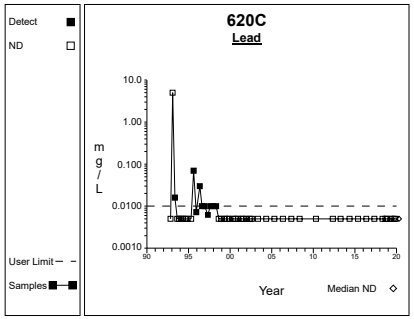
Graph 209



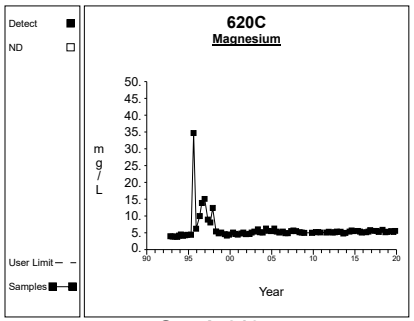
Graph 210



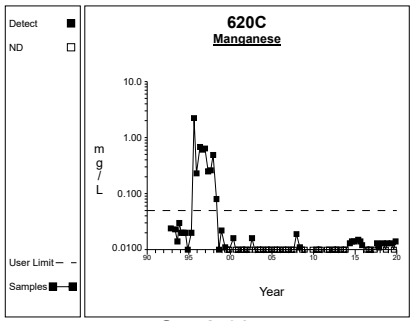
Graph 211



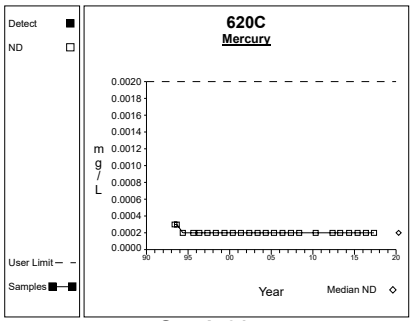
Graph 212



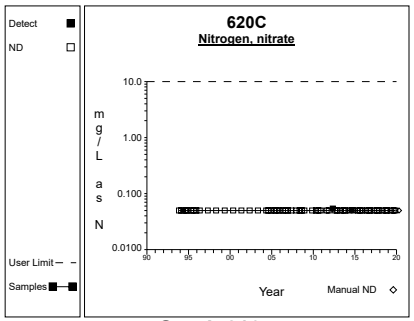
Graph 213



Graph 214

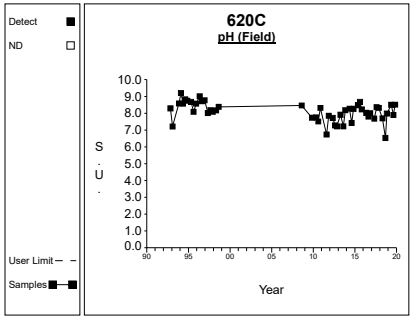


Graph 215

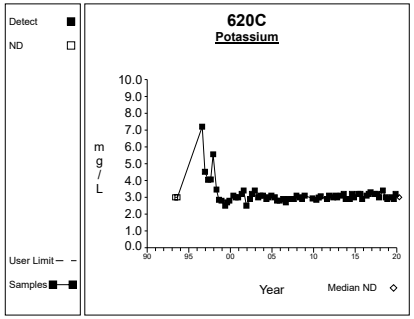


Graph 216

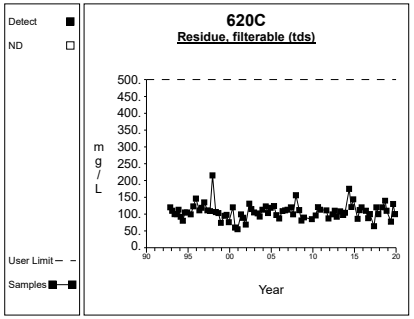
Time Series



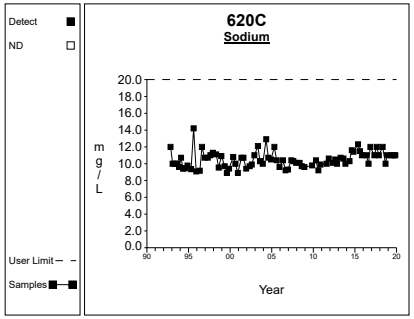
Graph 217



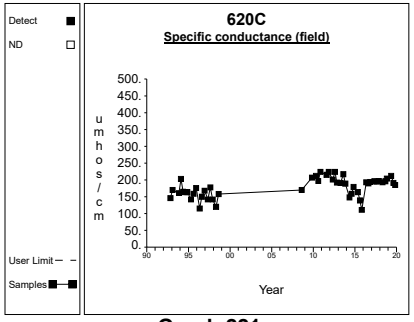
Graph 218



Graph 219



Graph 220



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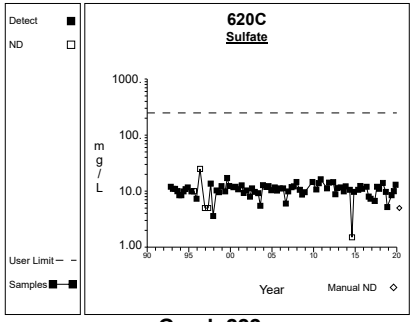
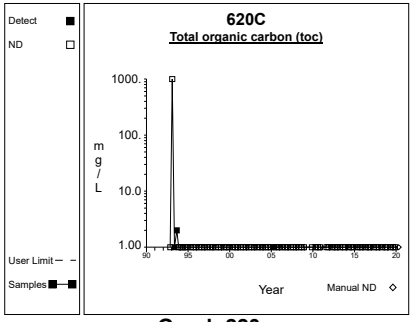
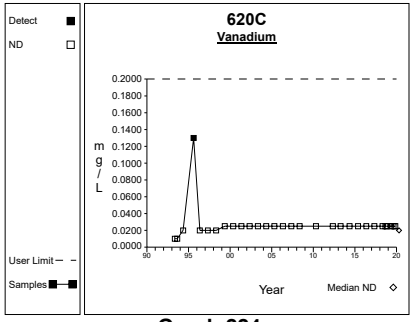


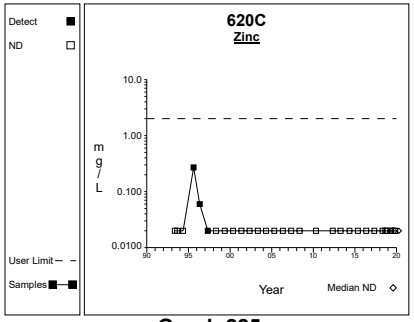
Graph 222



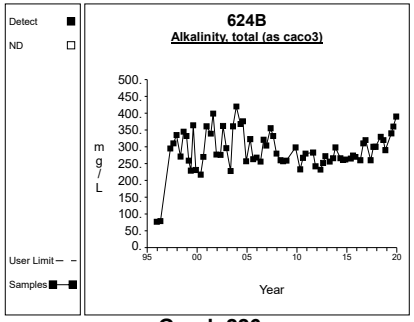
Graph 223



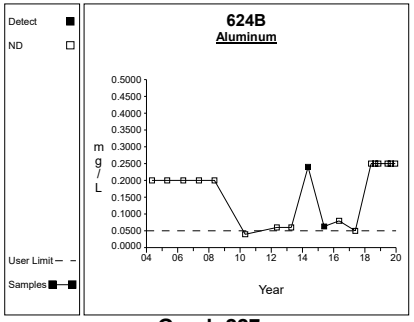
Graph 224



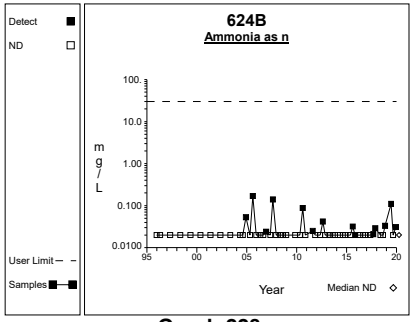
Graph 225



Graph 226

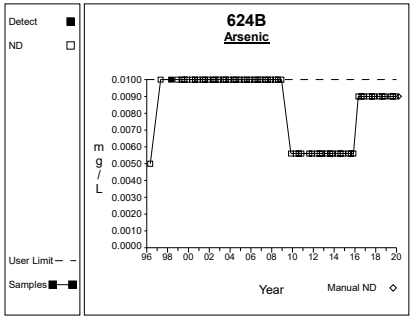


Graph 227

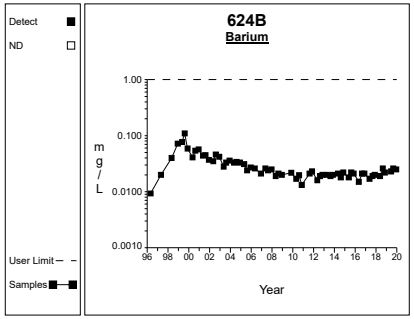


Graph 228

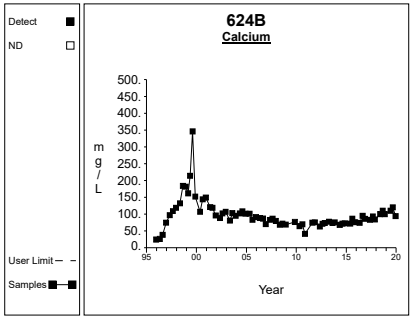
Time Series



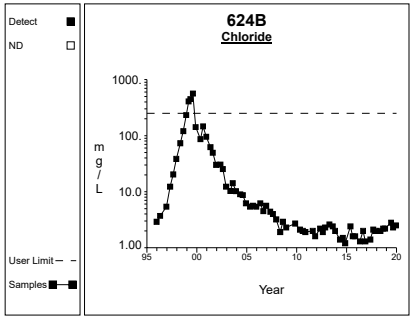
Graph 229



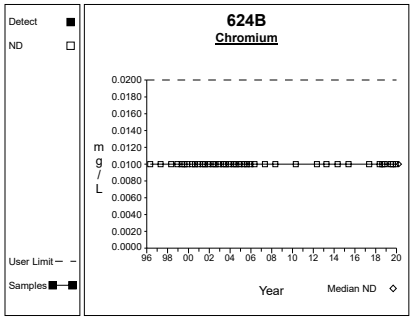
Graph 230



Graph 231



Graph 232



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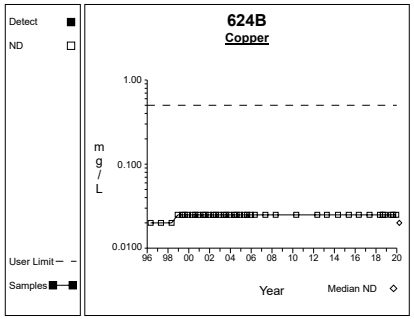
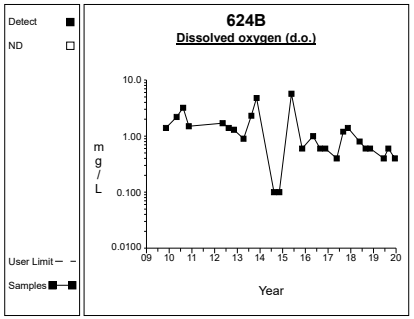
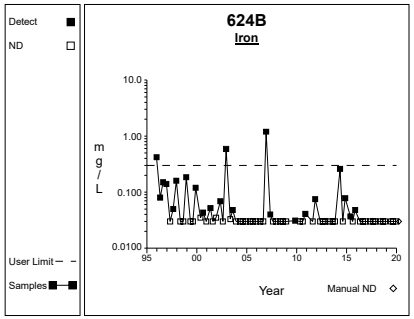


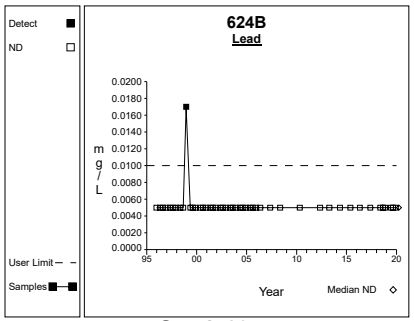
Graph 234



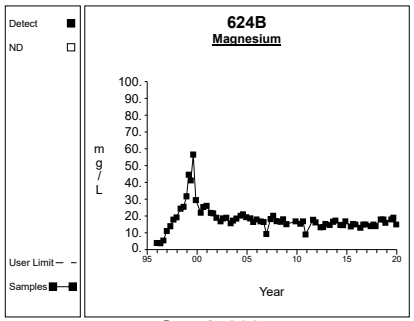
Graph 235



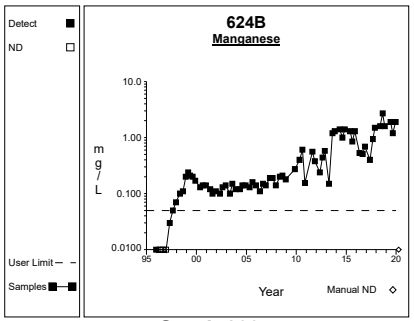
Graph 236



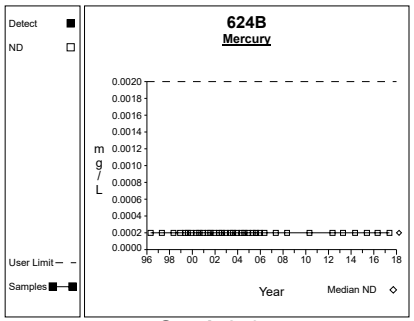
Graph 237



Graph 238

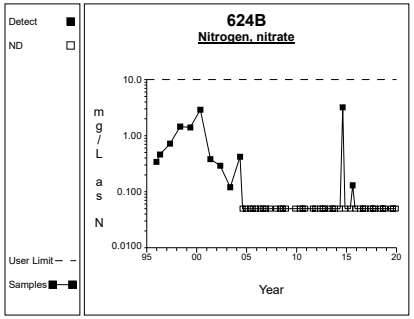


Graph 239

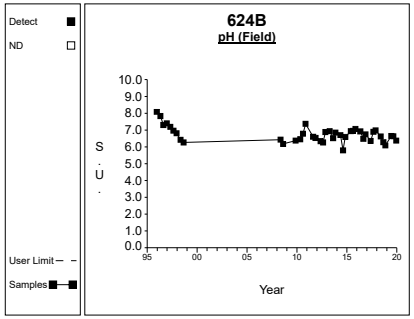


Graph 240

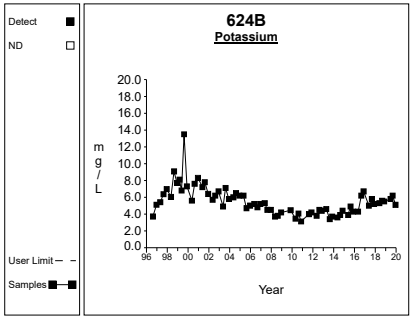
Time Series



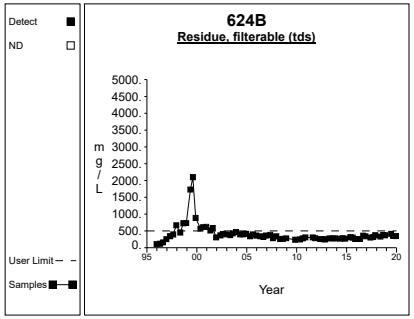
Graph 241



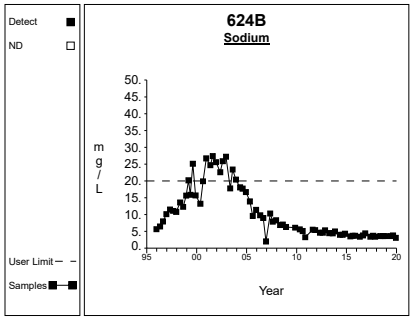
Graph 242



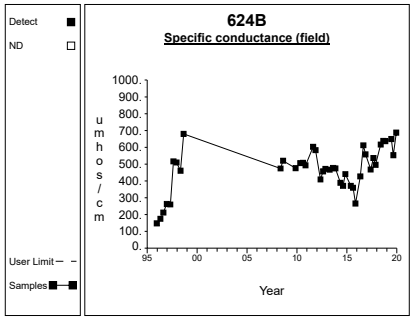
Graph 243



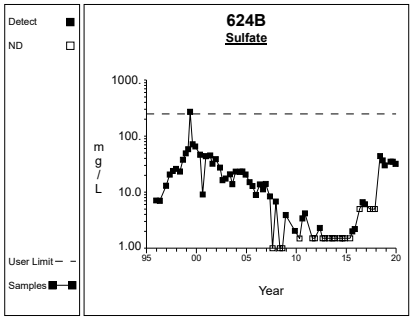
Graph 244



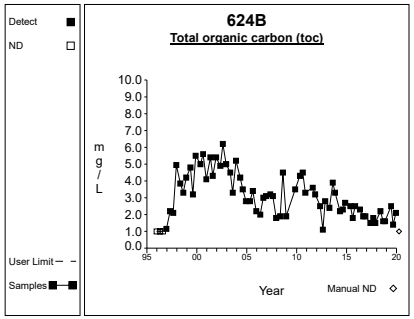
Graph 245



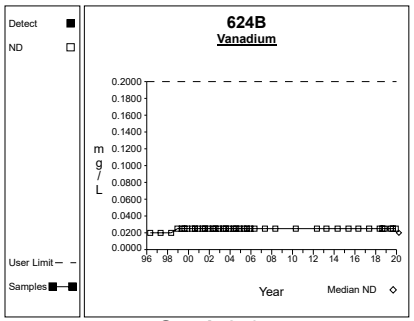
Graph 246



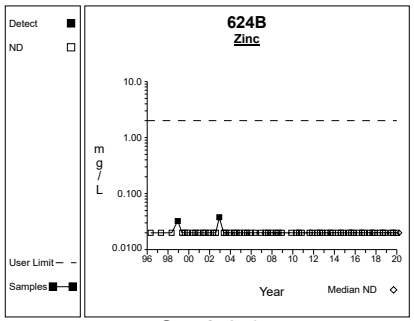
Graph 247



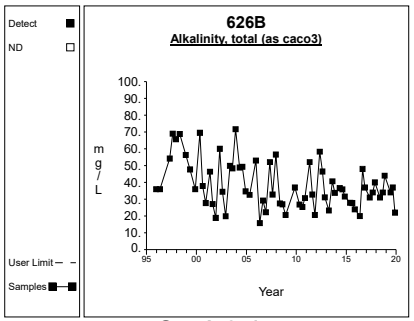
Graph 248



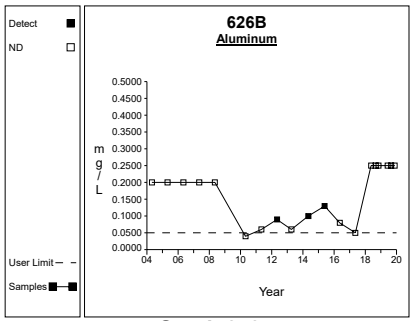
Graph 249



Graph 250

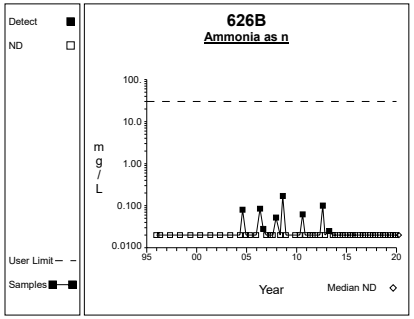


Graph 251

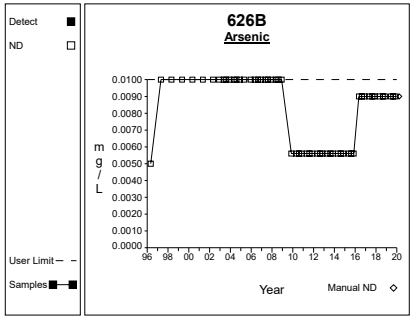


Graph 252

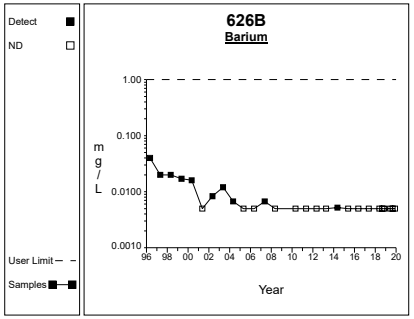
Time Series



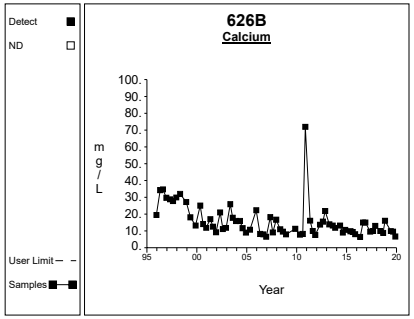
Graph 253



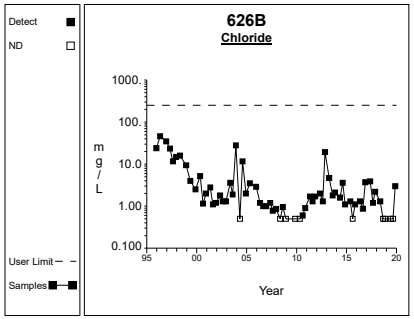
Graph 254



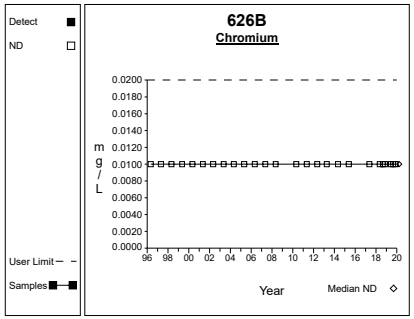
Graph 255



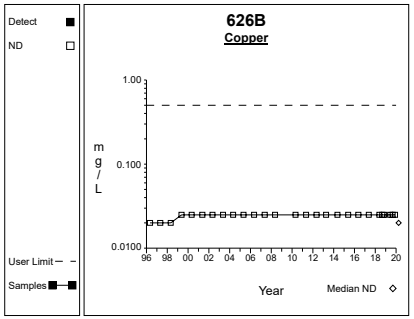
Graph 256



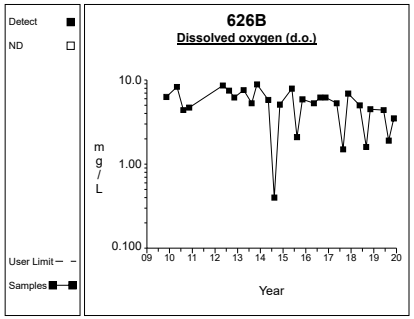
Graph 257



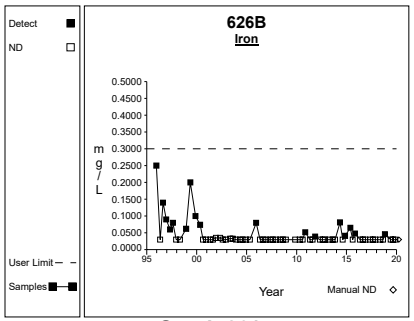
Graph 258



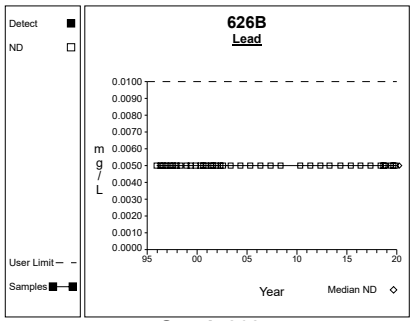
Graph 259



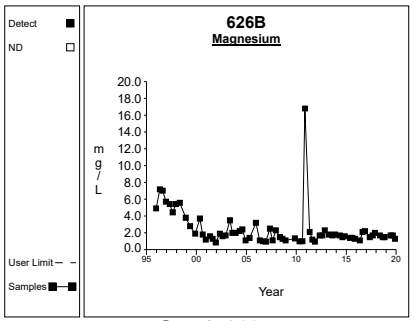
Graph 260



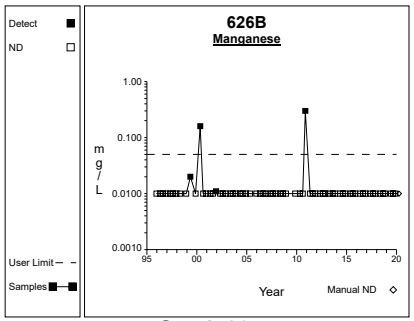
Graph 261



Graph 262

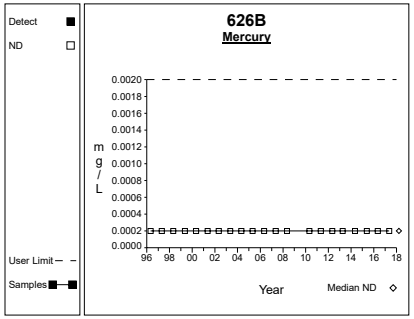


Graph 263

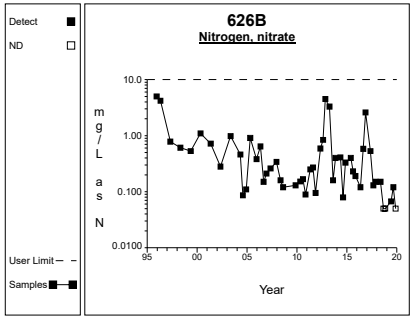


Graph 264

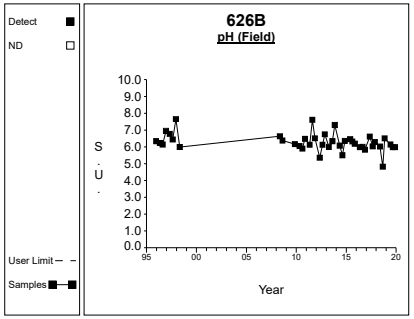
Time Series



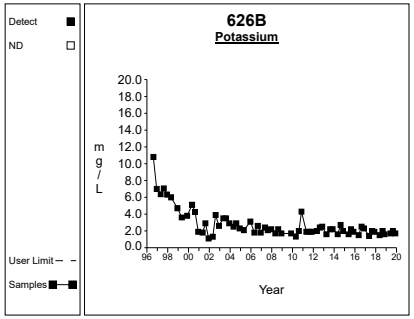
Graph 265



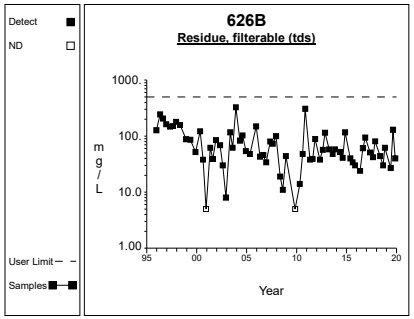
Graph 266



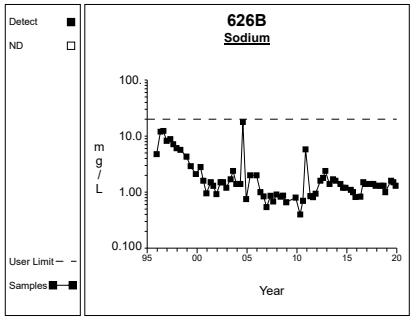
Graph 267



Graph 268



Graph 269



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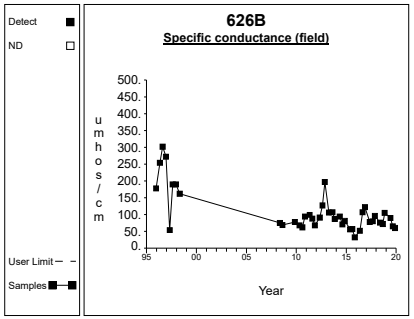
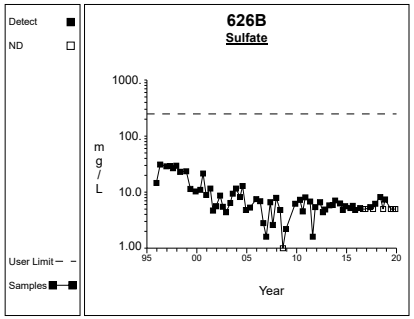


Graph 271



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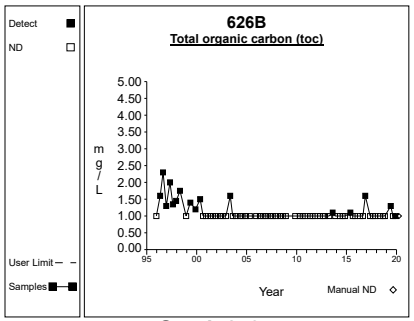
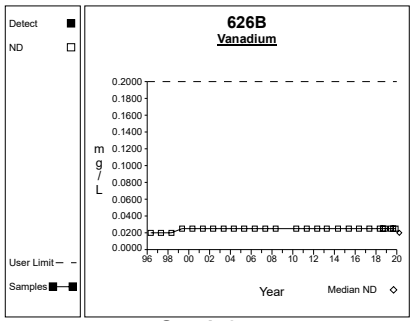
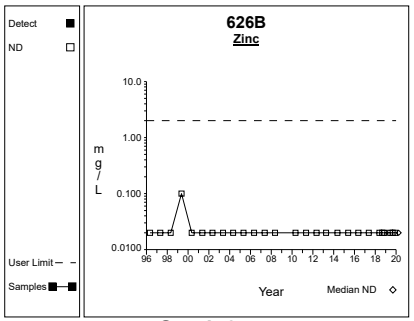


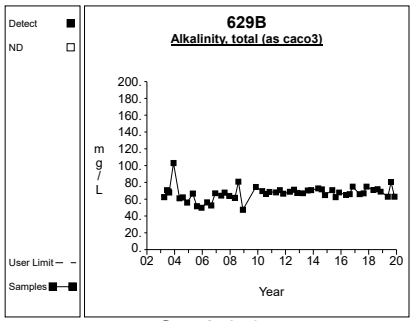
Graph 273



Graph 274

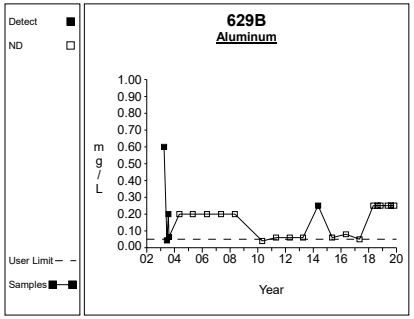


Graph 275

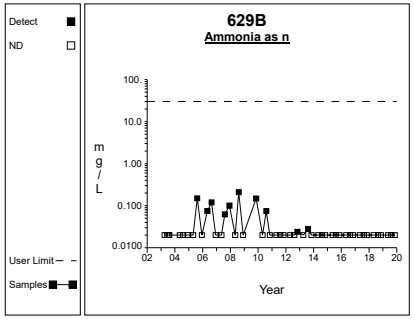


Graph 276

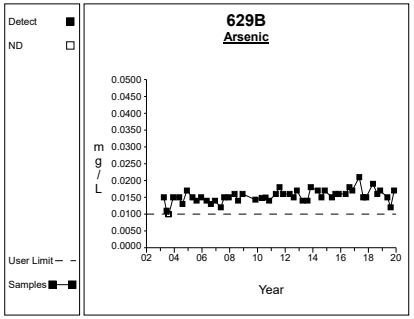
Time Series



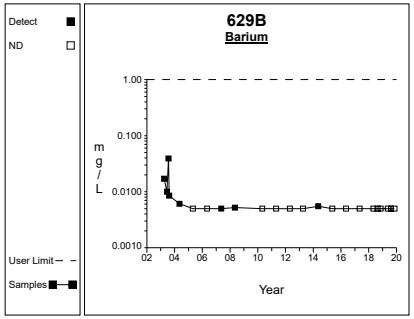
Graph 277



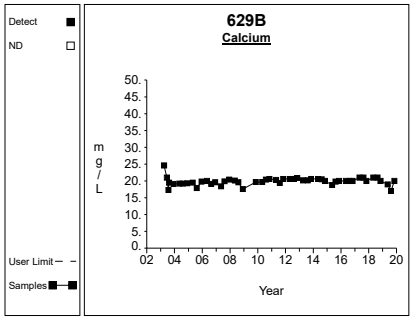
Graph 278



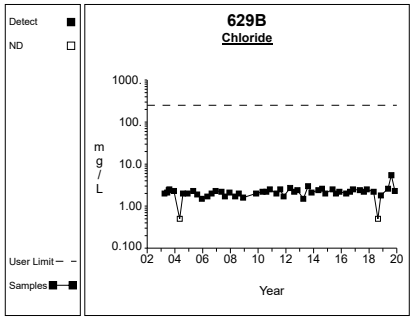
Graph 279



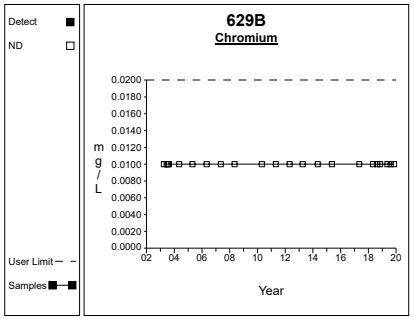
Graph 280



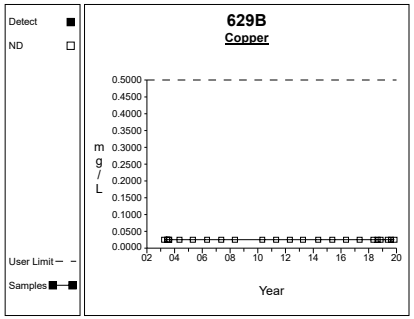
Graph 281



Graph 282



Graph 283



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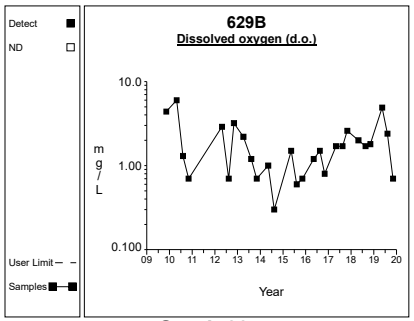

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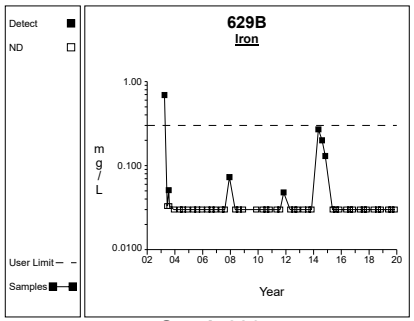
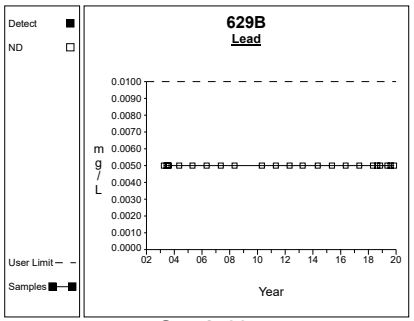
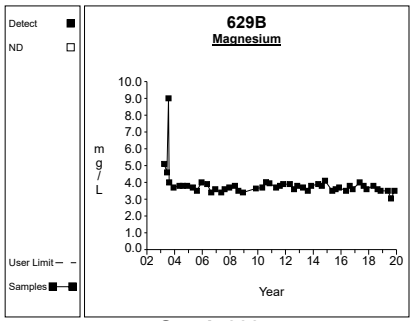


Graph 286

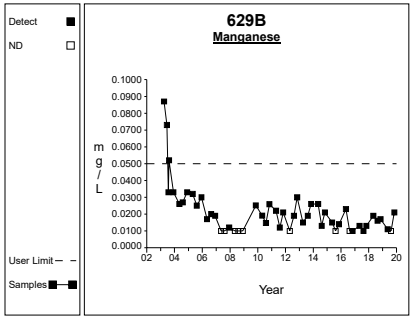


Graph 287

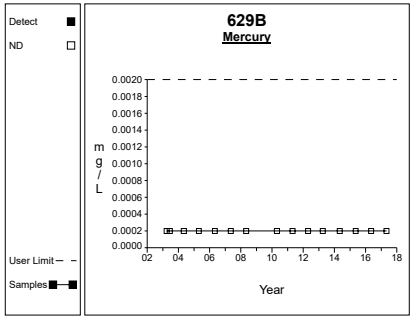


Graph 288

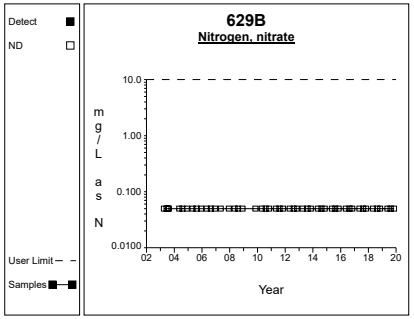
Time Series



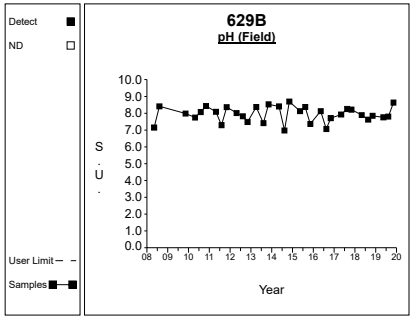
Graph 289



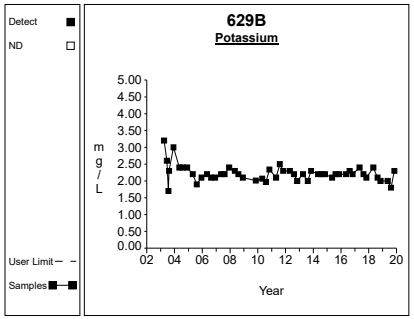
Graph 290



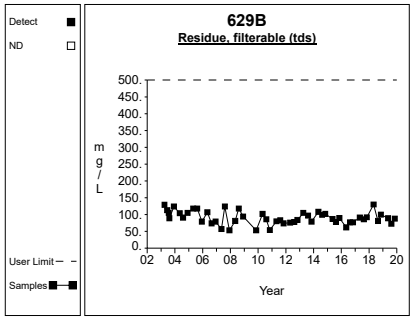
Graph 291



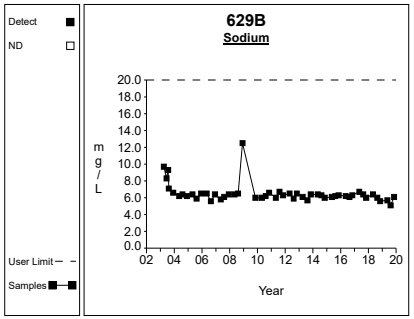
Graph 292



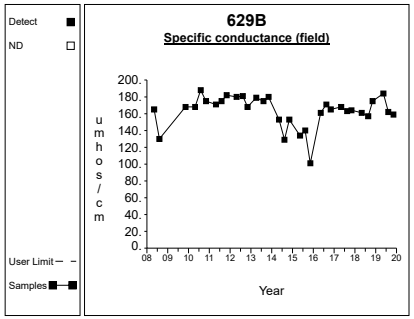
Graph 293



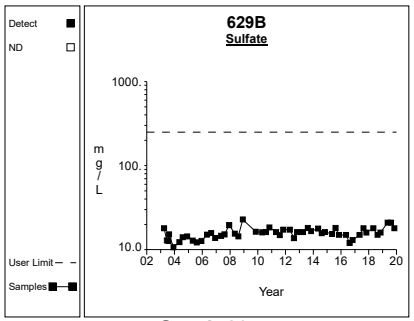
Graph 294



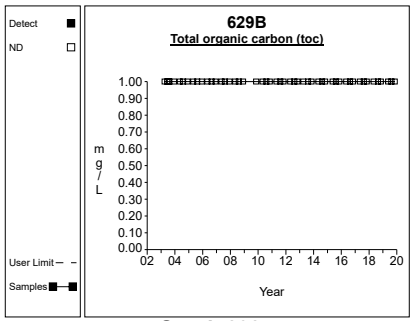
Graph 295



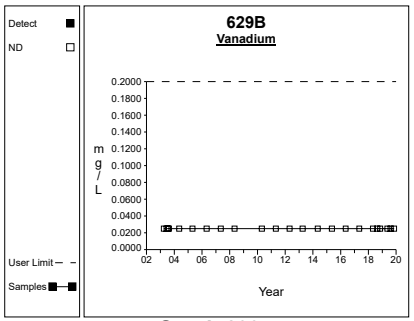
Graph 296



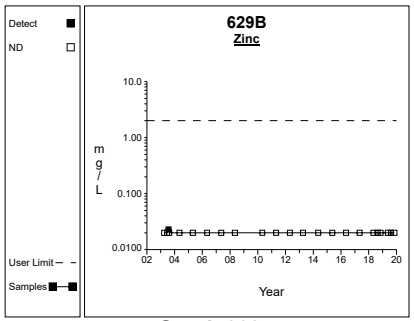
Graph 297



Graph 298

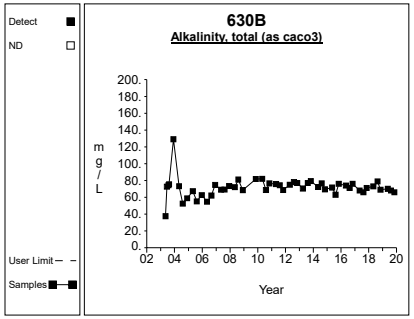


Graph 299

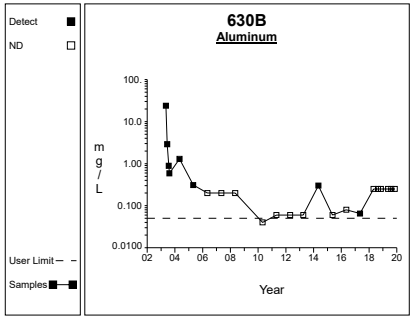


Graph 300

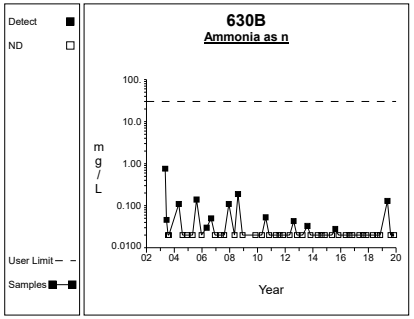
Time Series



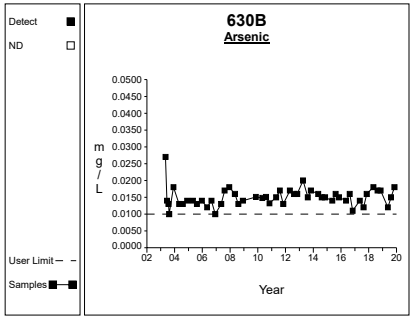
Graph 301



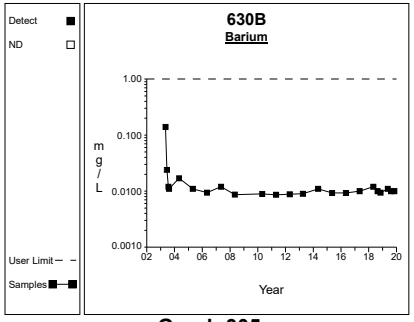
Graph 302



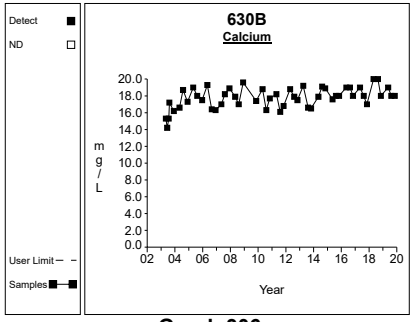
Graph 303



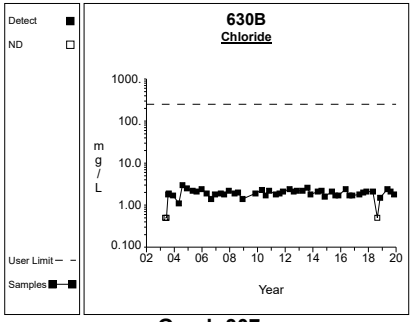
Graph 304



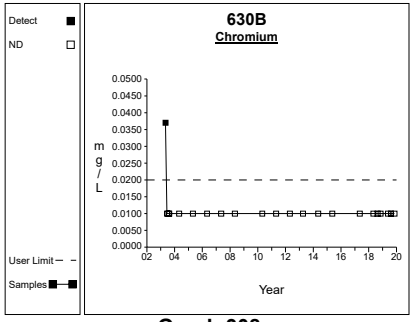
Graph 305



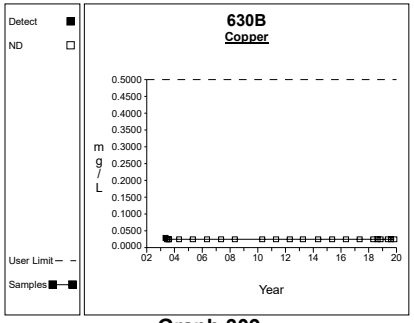
Graph 306



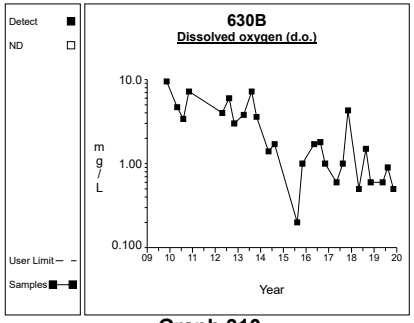
Graph 307



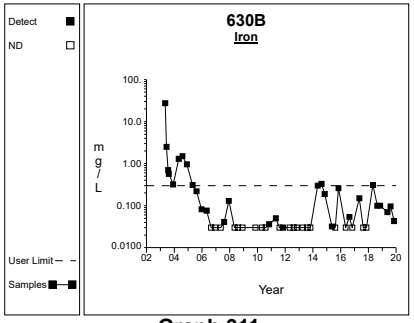
Graph 308



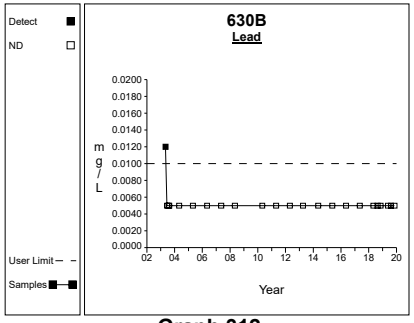
Graph 309



Graph 310

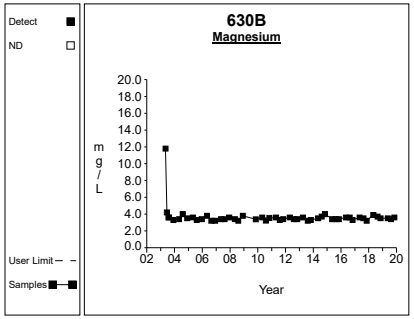


Graph 311

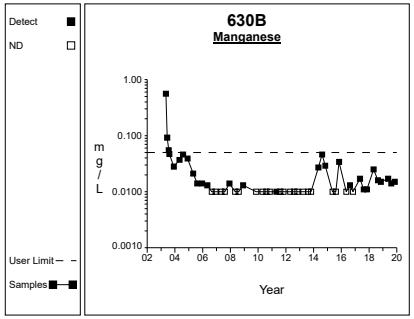


Graph 312

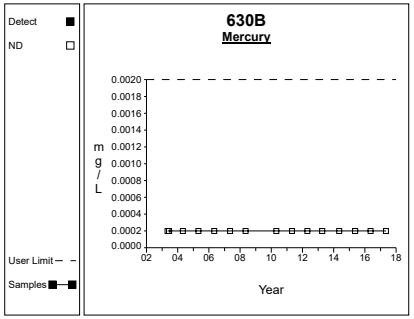
Time Series



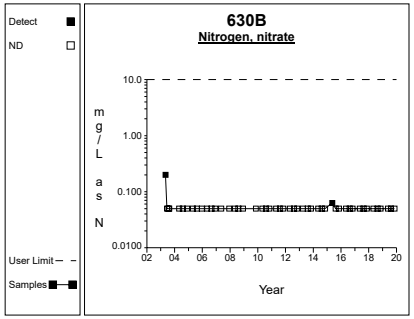
Graph 313



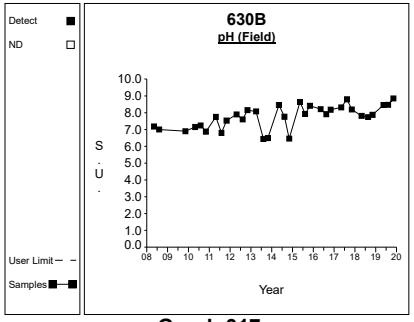
Graph 314



Graph 315



Graph 316



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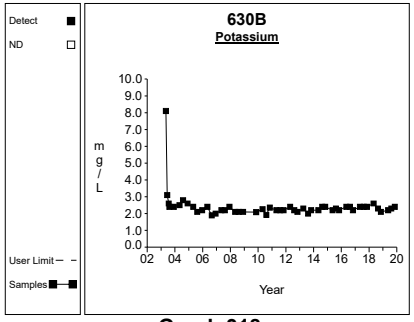
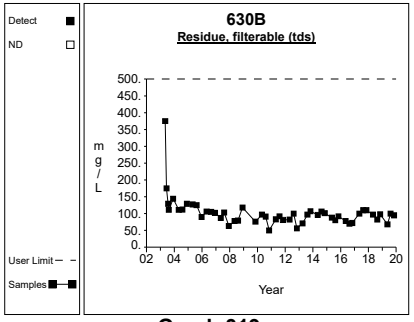
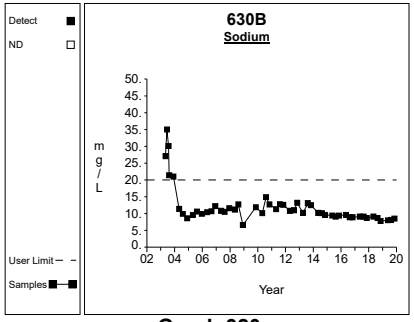


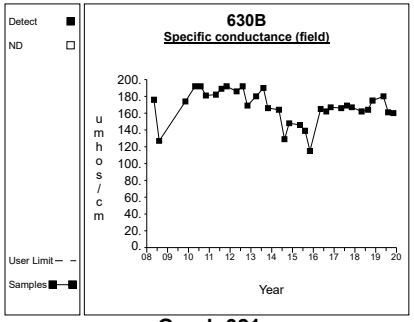
Graph 318



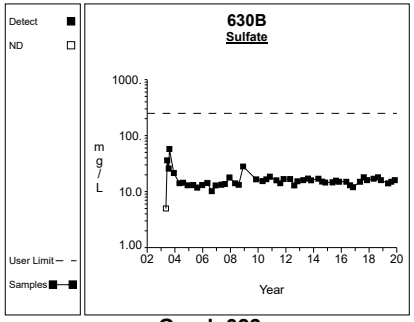
Graph 319



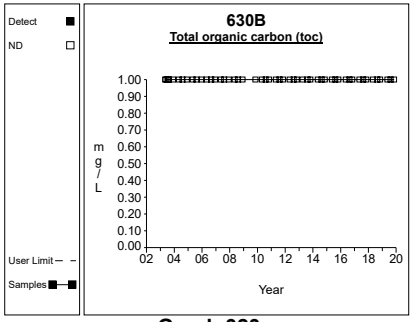
Graph 320



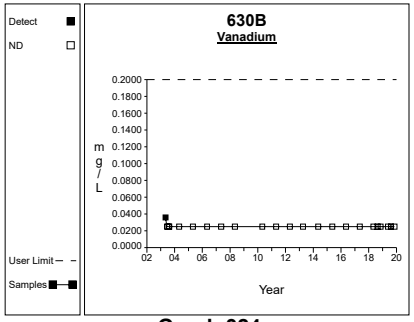
Graph 321



Graph 322

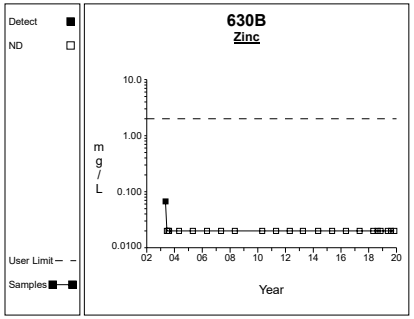


Graph 323

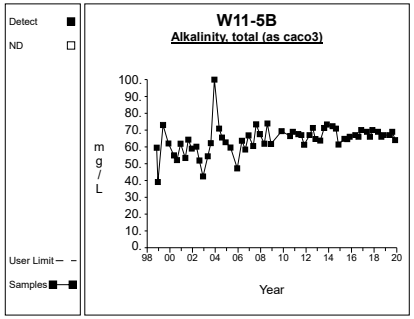


Graph 324

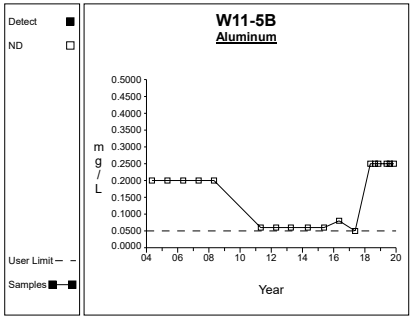
Time Series



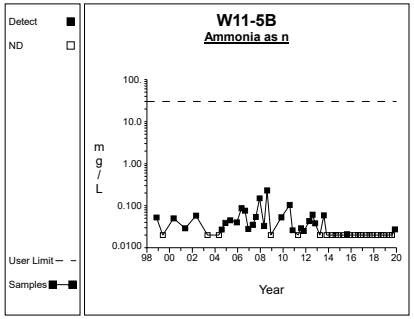
Graph 325



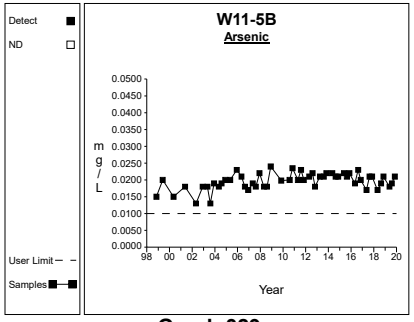
Graph 326



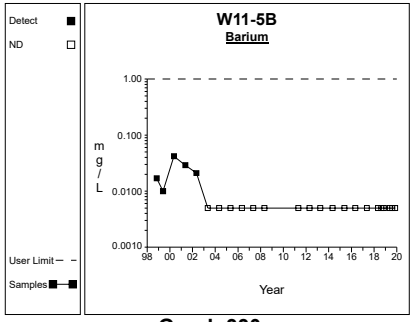
Graph 327



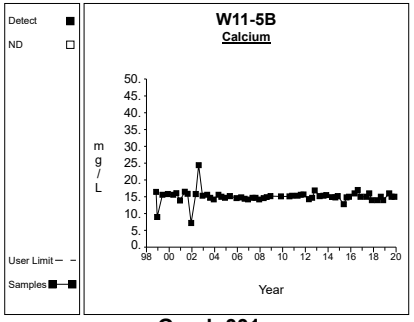
Graph 328



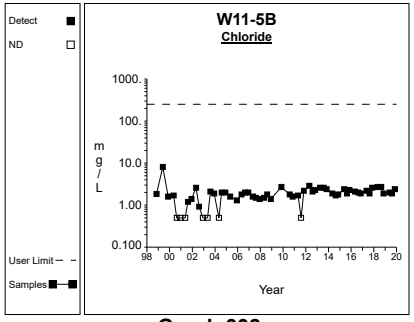
Graph 329



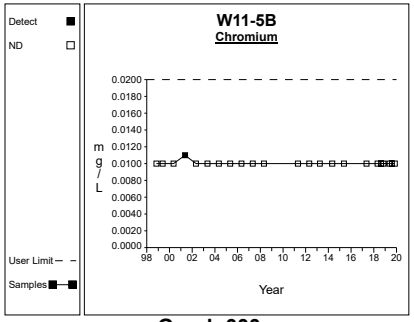
Graph 330



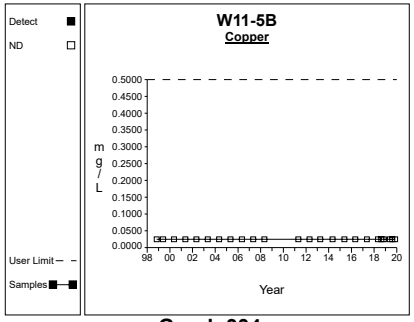
Graph 331



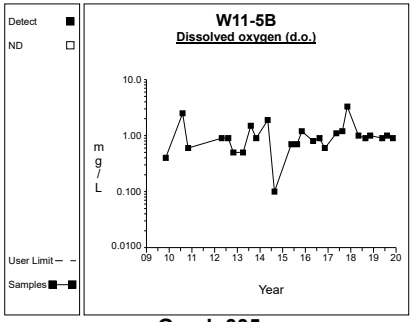
Graph 332



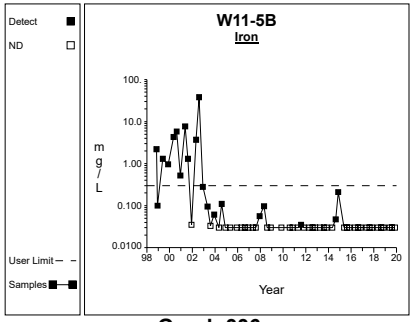
Graph 333



Graph 334

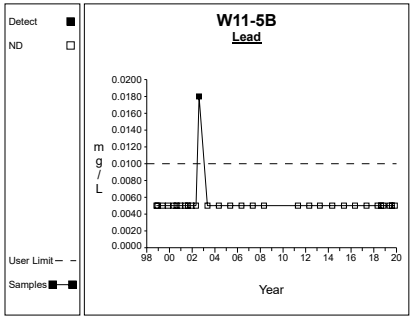


Graph 335

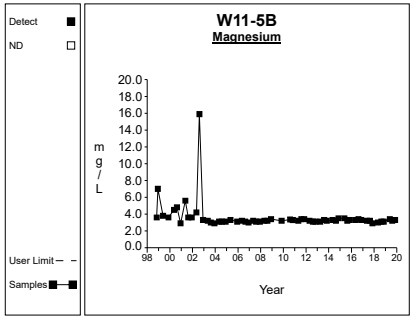


Graph 336

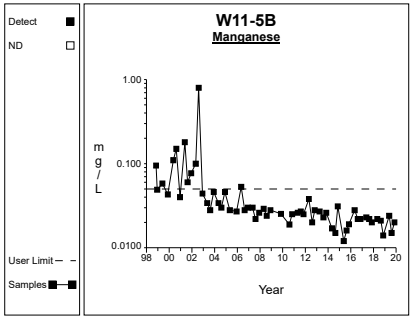
Time Series



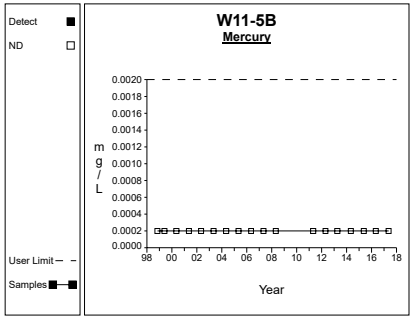
Graph 337



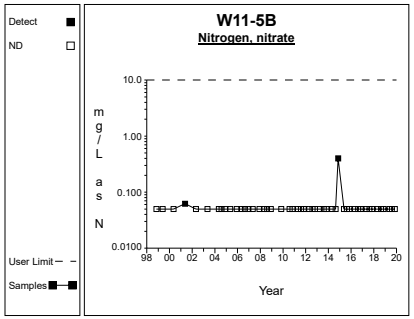
Graph 338



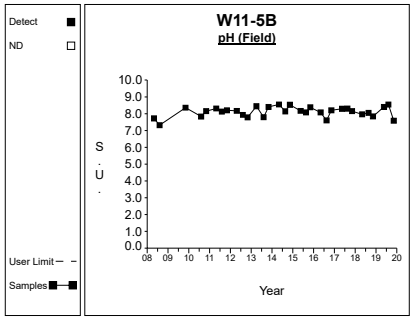
Graph 339



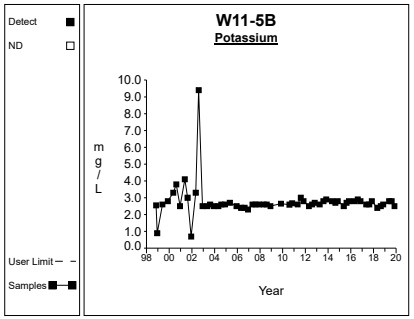
Graph 340



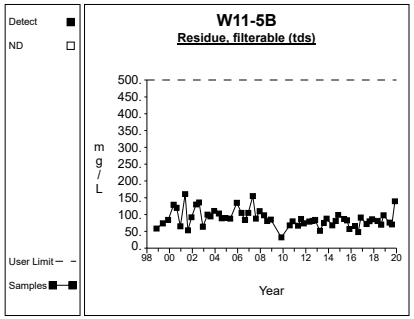
Graph 341



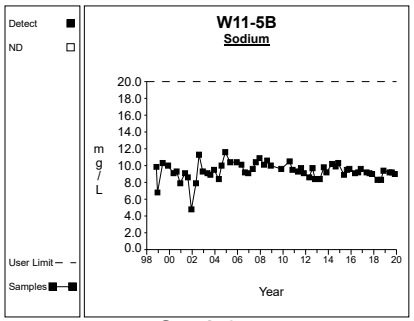
Graph 342



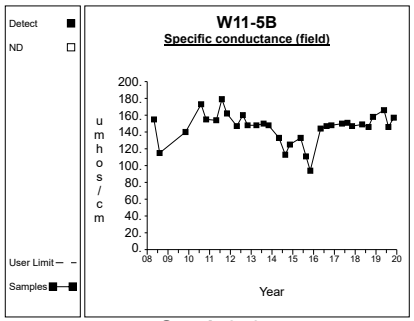
Graph 343



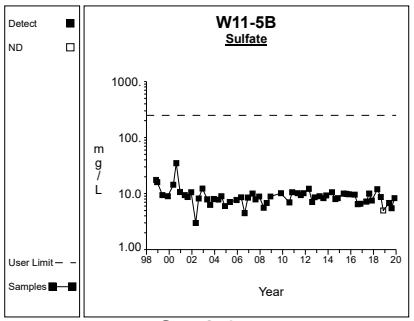
Graph 344



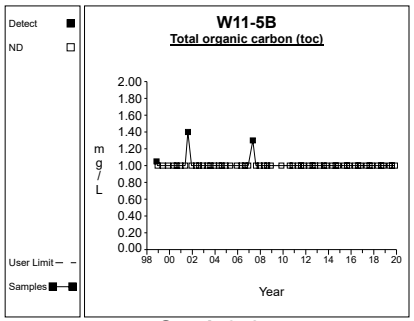
Graph 345



Graph 346

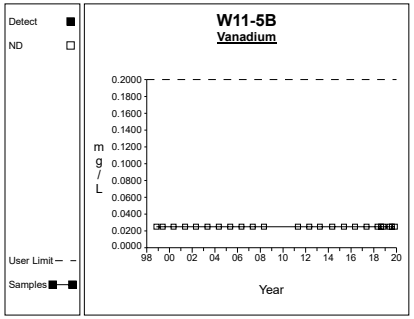


Graph 347

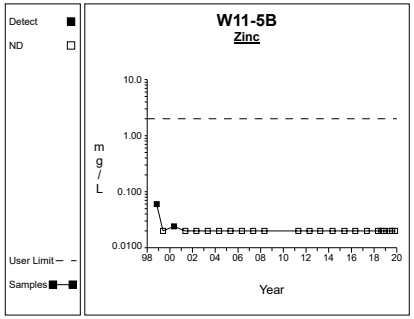


Graph 348

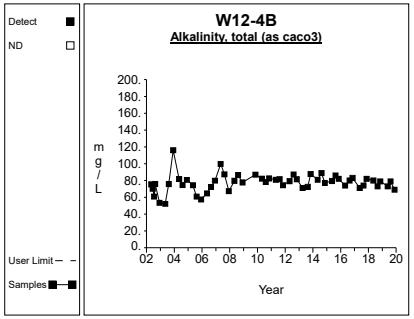
Time Series



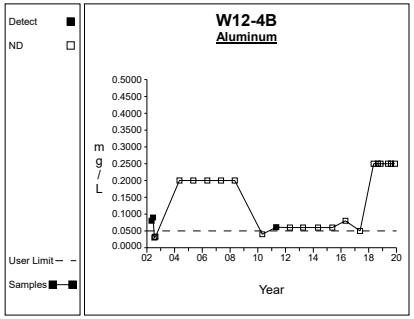
Graph 349



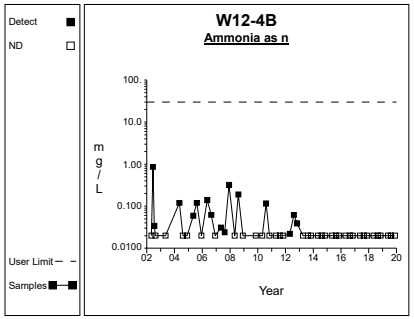
Graph 350



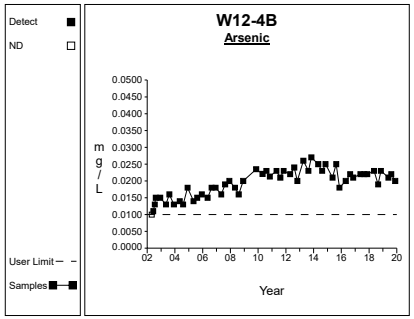
Graph 351



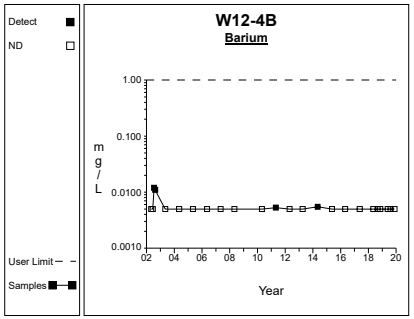
Graph 352



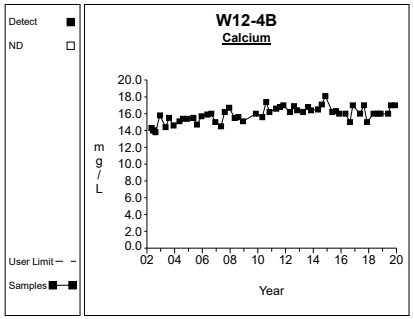
Graph 353



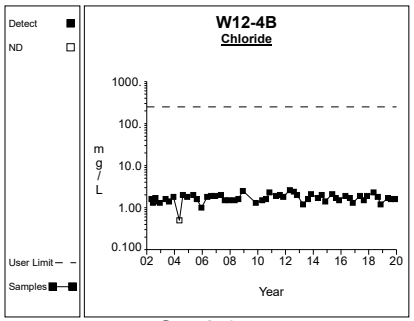
Graph 354



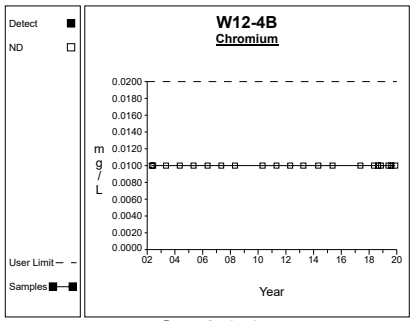
Graph 355



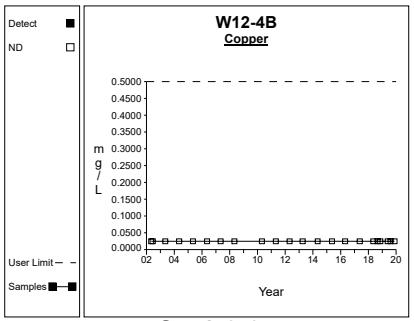
Graph 356



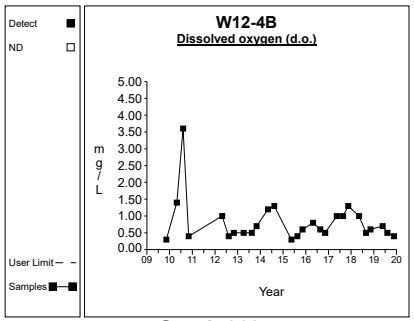
Graph 357



Graph 358

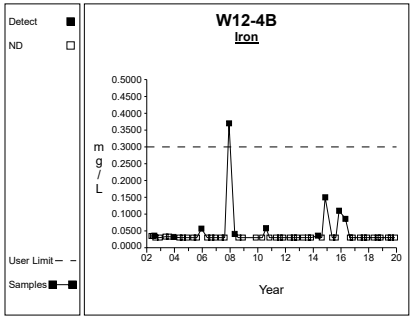


Graph 359

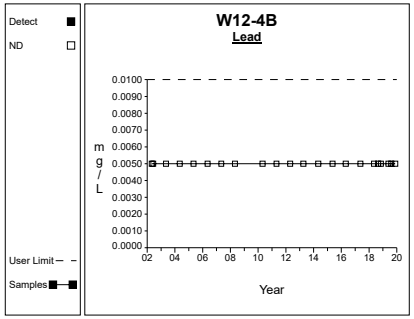


Graph 360

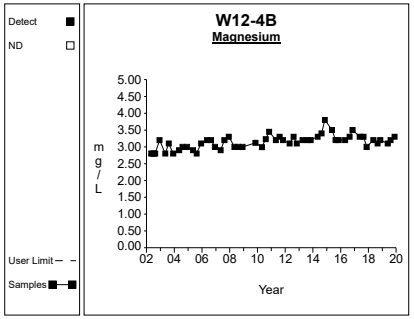
Time Series



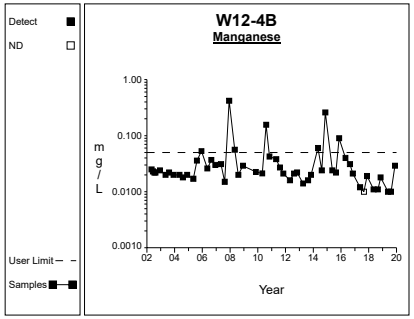
Graph 361



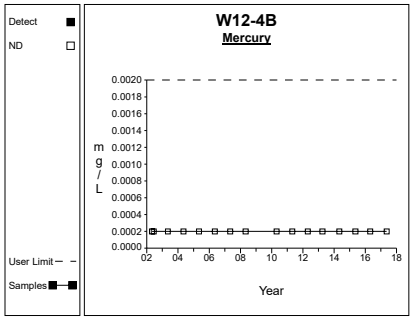
Graph 362



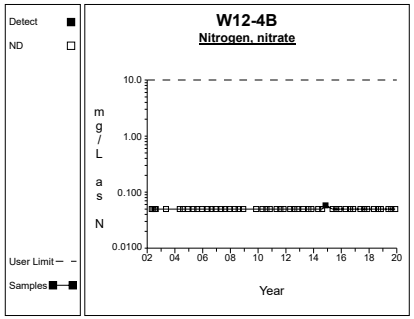
Graph 363



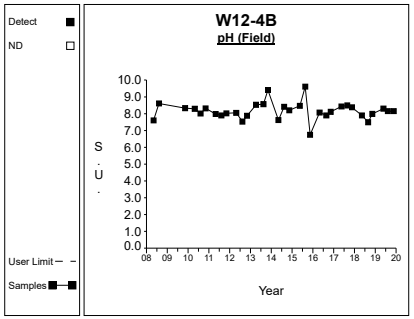
Graph 364



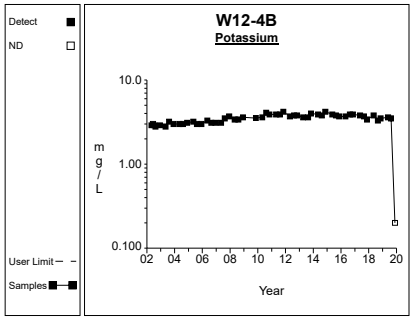
Graph 365



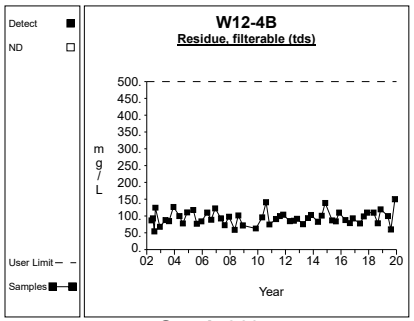
Graph 366



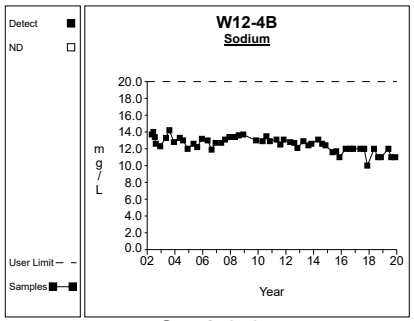
Graph 367



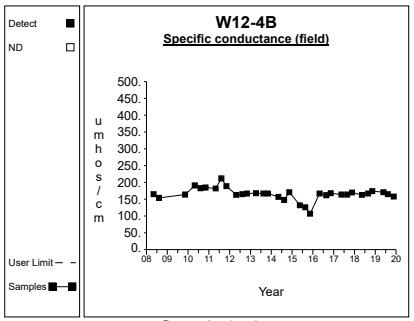
Graph 368



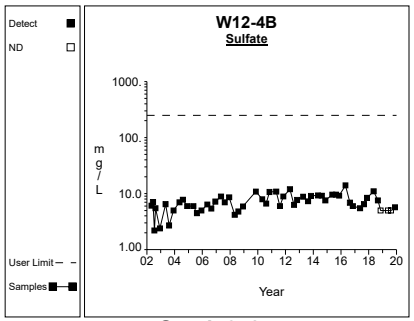
Graph 369



Graph 370

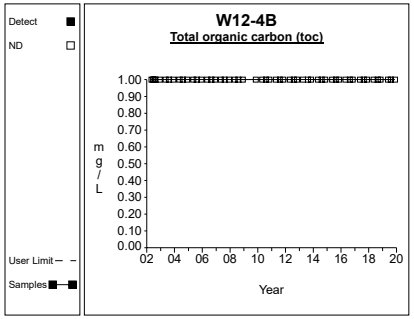


Graph 371

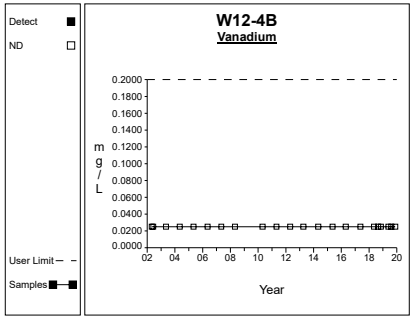


Graph 372

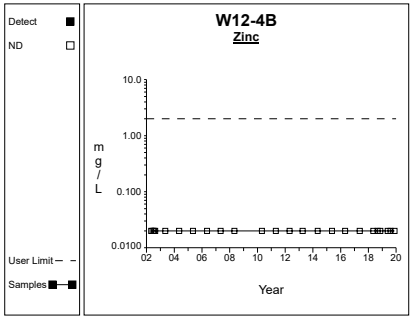
Time Series



Graph 373



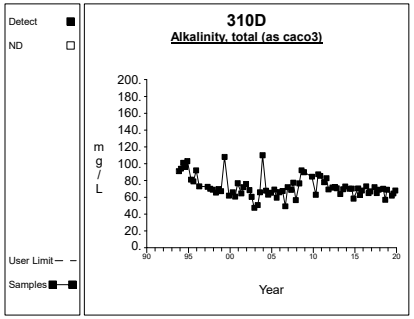
Graph 374



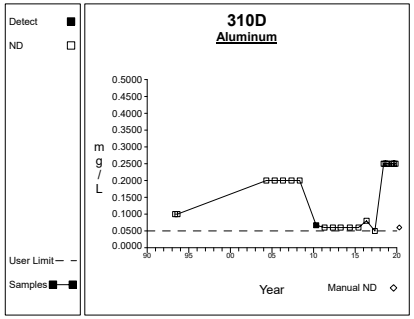
Graph 375

Upgradient Wells – Bedrock Zone

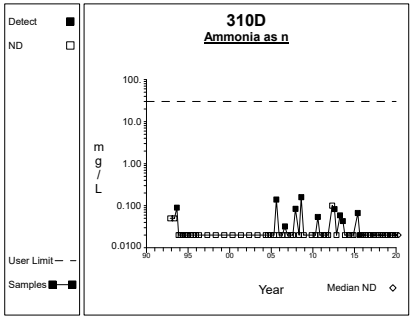
Time Series



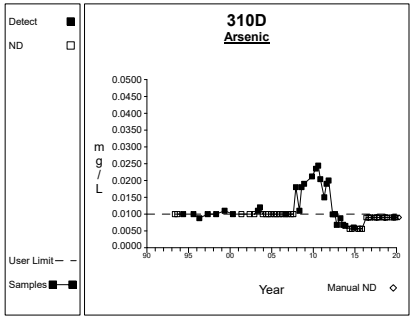
Graph 1



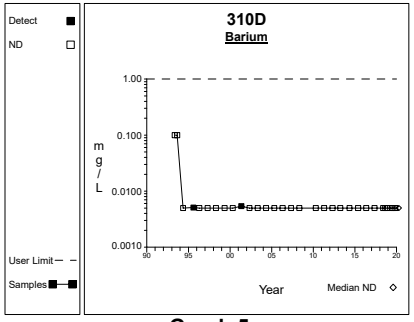
Graph 2



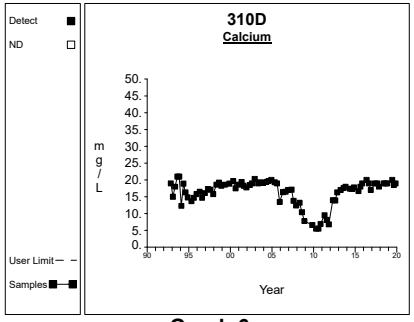
Graph 3



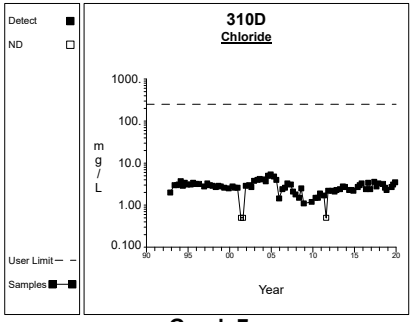
Graph 4



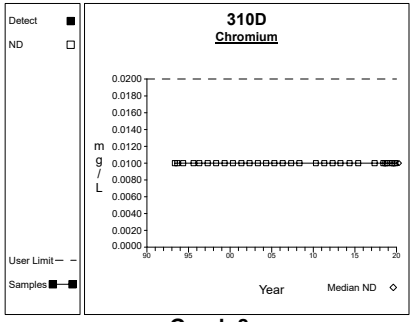
Graph 5



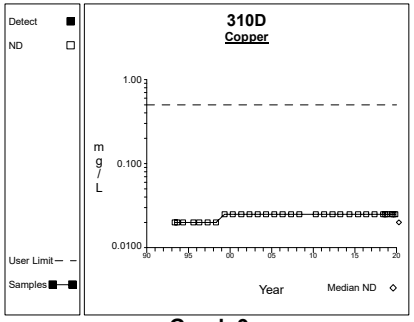
Graph 6



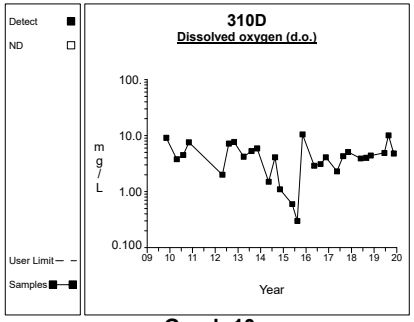
Graph 7



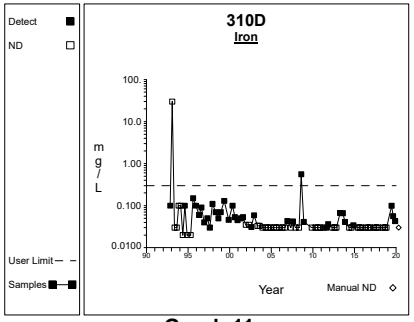
Graph 8



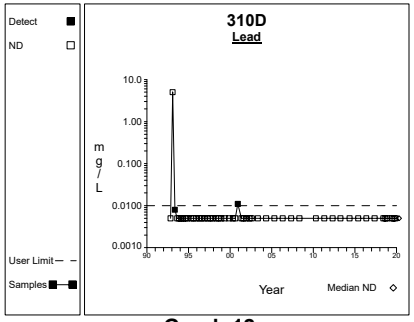
Graph 9



Graph 10

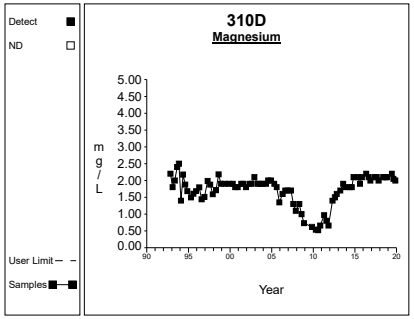


Graph 11

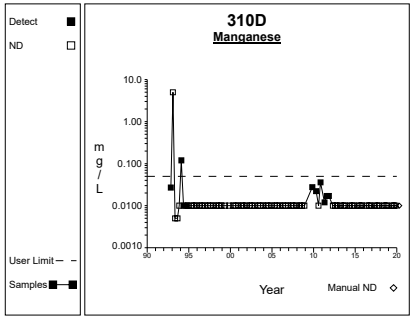


Graph 12

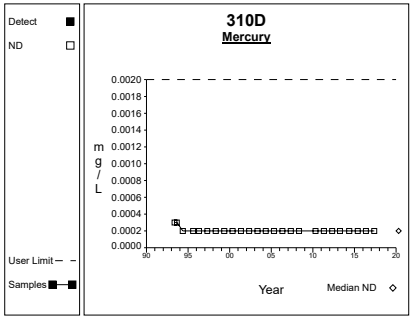
Time Series



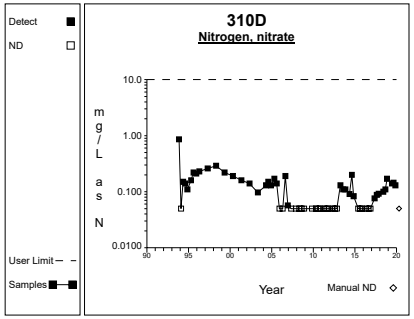
Graph 13



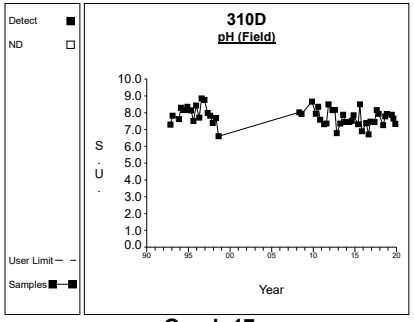
Graph 14



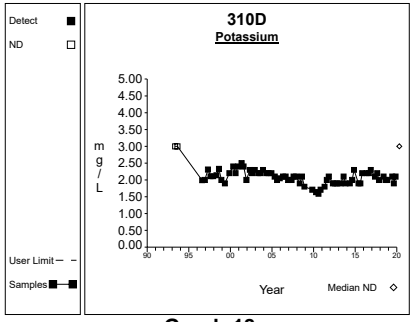
Graph 15



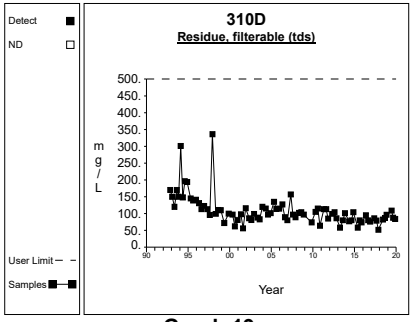
Graph 16



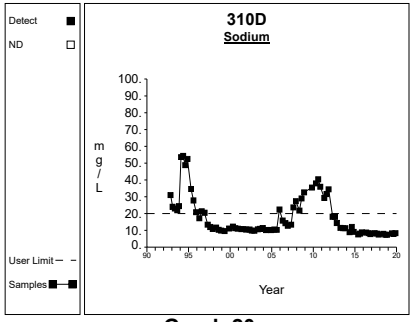
Graph 17



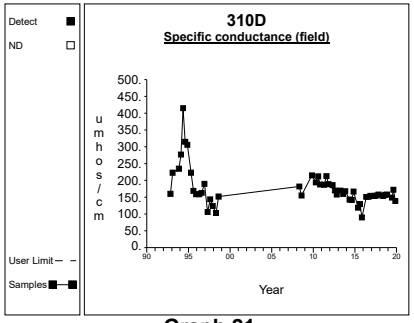
Graph 18



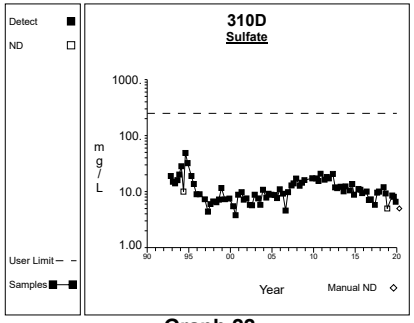
Graph 19



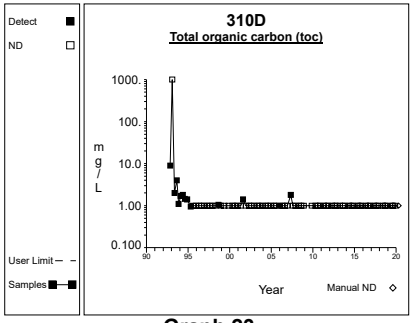
Graph 20



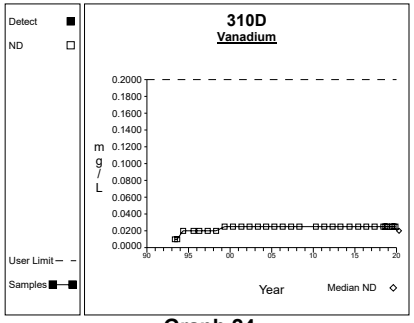
Graph 21



Graph 22

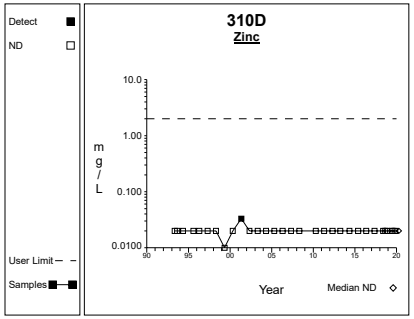


Graph 23

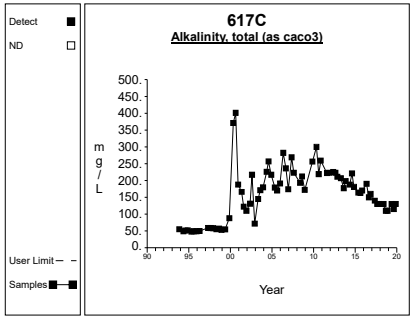


Graph 24

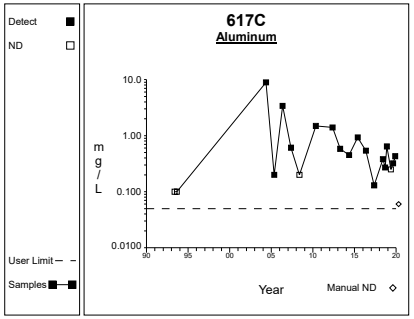
Time Series



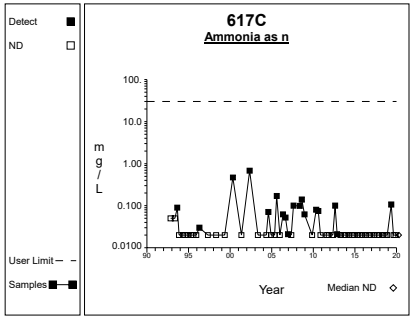
Graph 25



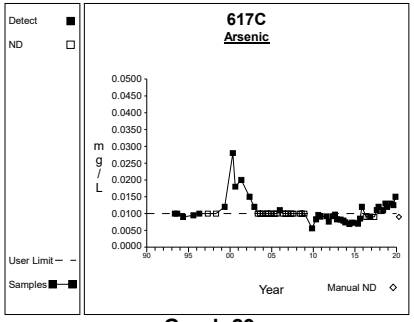
Graph 26



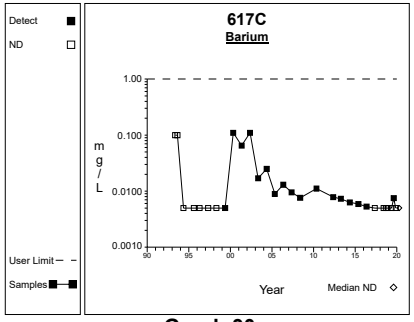
Graph 27



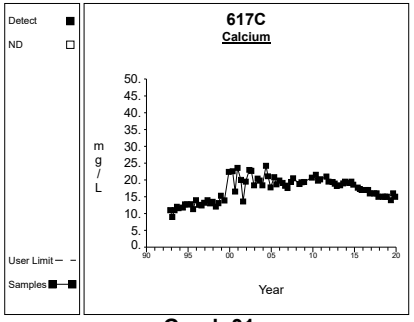
Graph 28



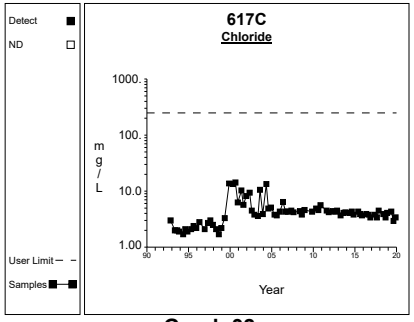
Graph 29



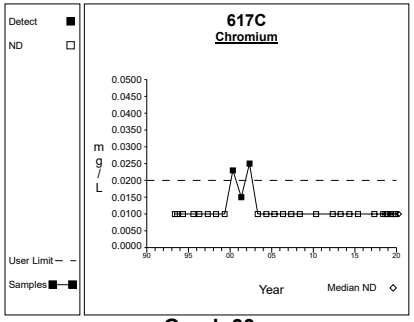
Graph 30



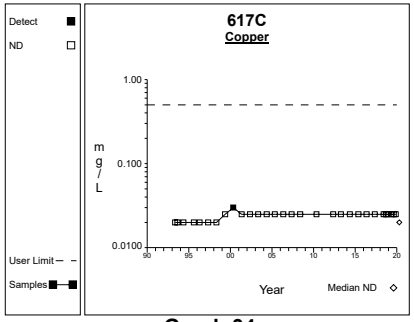
Graph 31



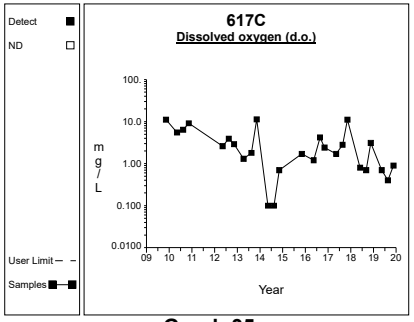
Graph 32



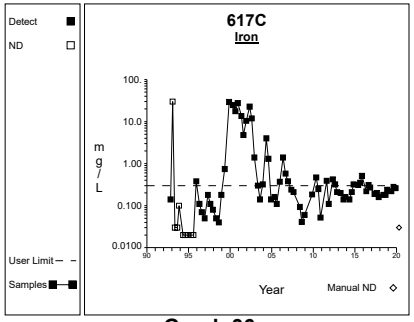
Graph 33



Graph 34

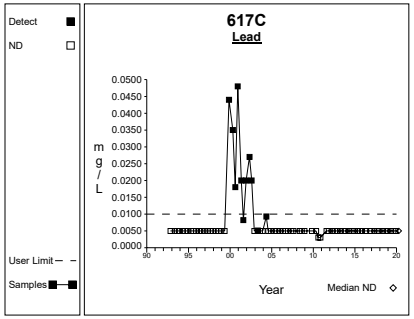


Graph 35

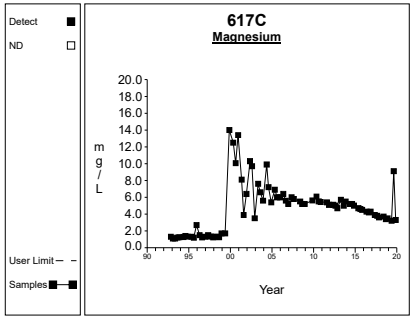


Graph 36

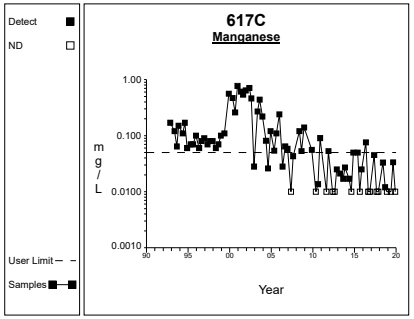
Time Series



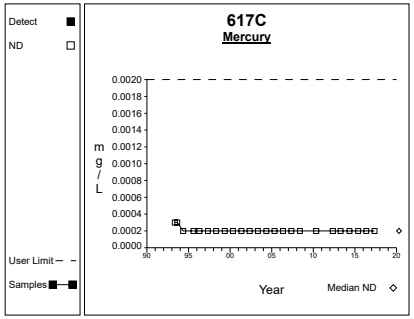
Graph 37



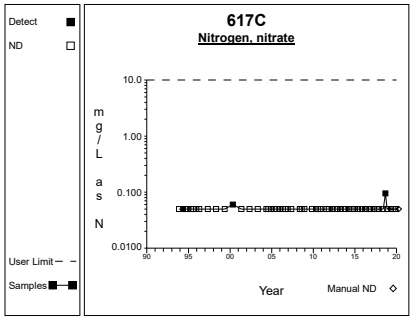
Graph 38



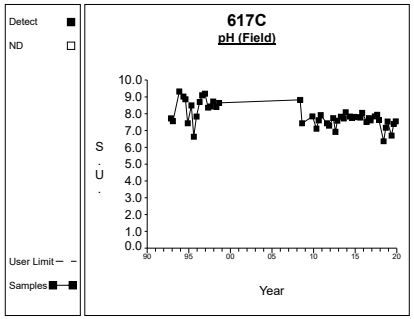
Graph 39



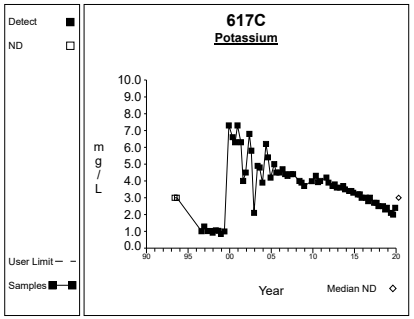
Graph 40



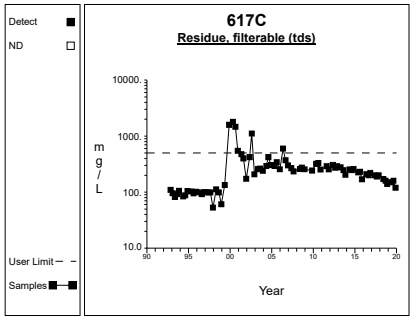
Graph 41



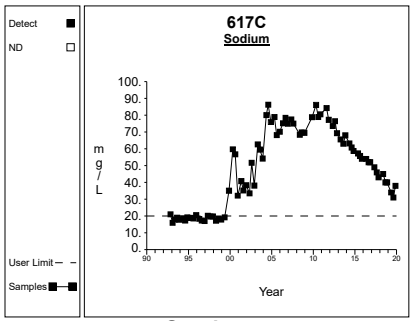
Graph 42



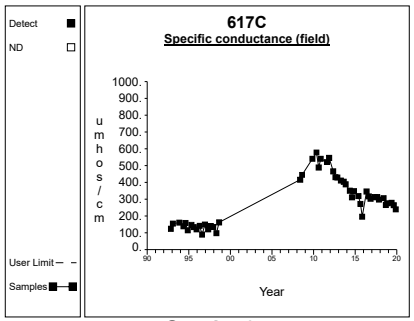
Graph 43



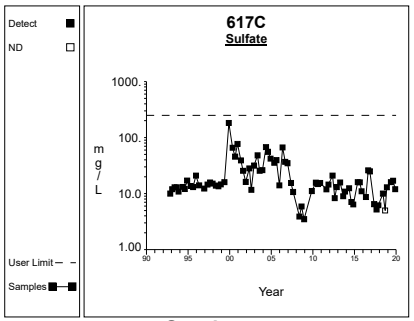
Graph 44



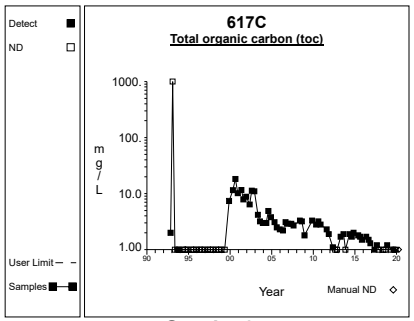
Graph 45



Graph 46

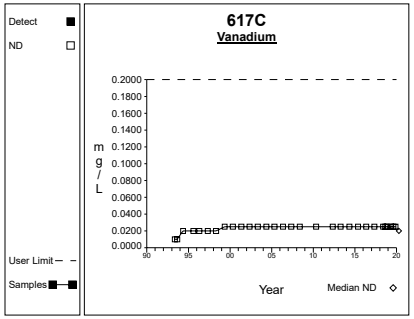


Graph 47

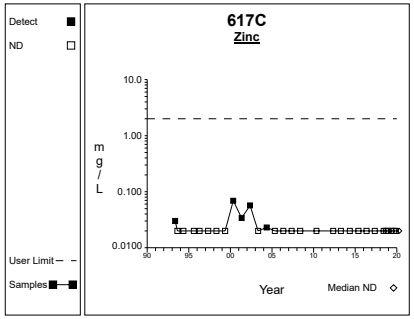


Graph 48

Time Series



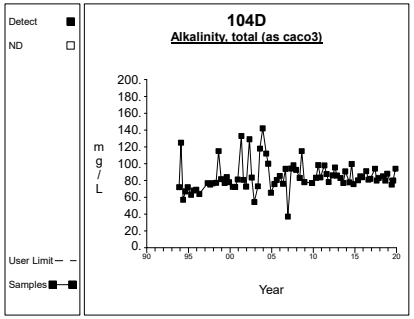
Graph 49



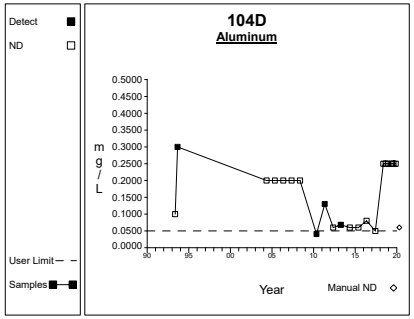
Graph 50

Downgradient Wells – Bedrock Zone

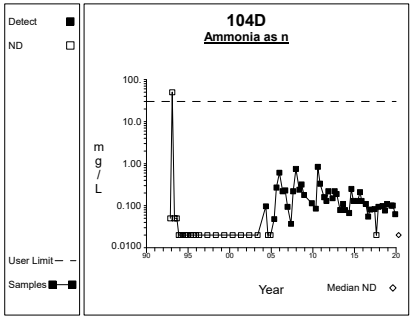
Time Series



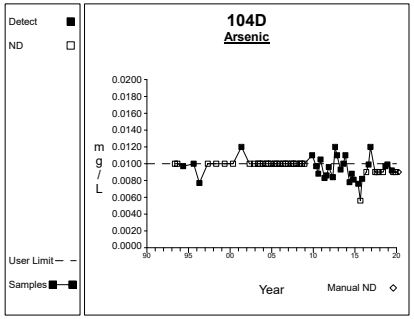
Graph 1



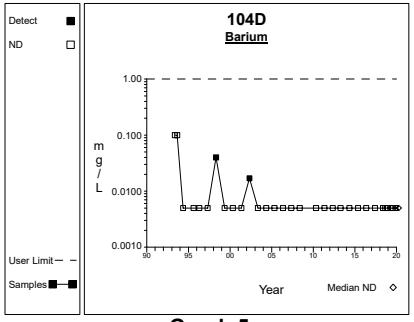
Graph 2



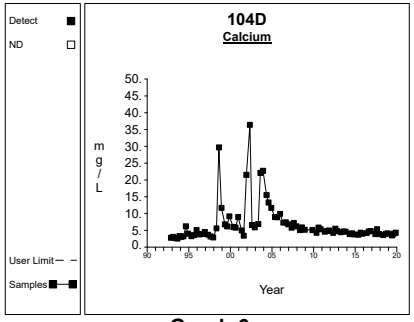
Graph 3



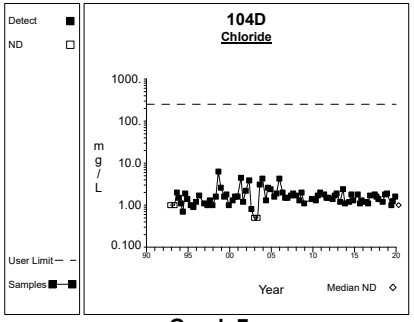
Graph 4



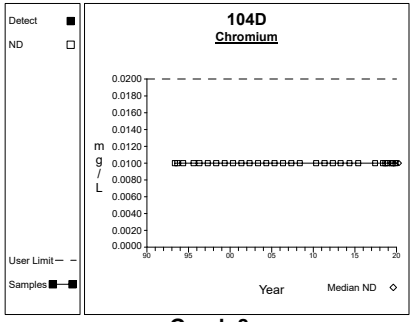
Graph 5



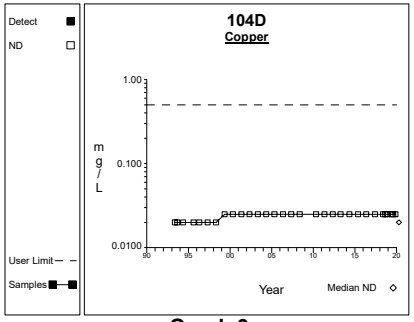
Graph 6



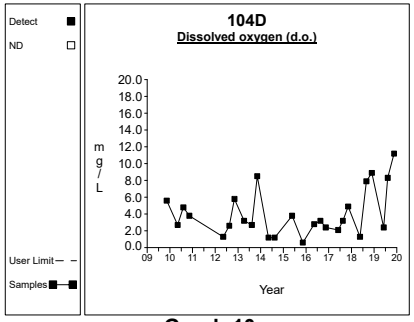
Graph 7



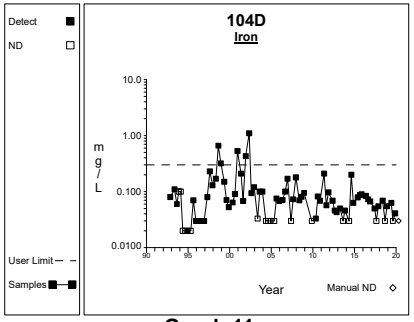
Graph 8



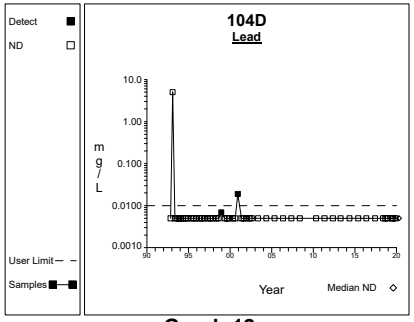
Graph 9



Graph 10

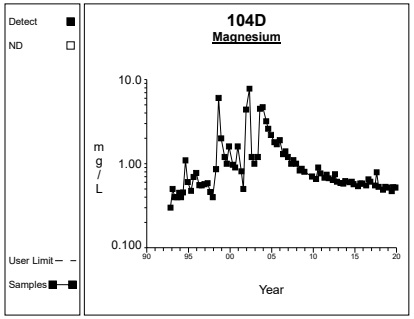


Graph 11

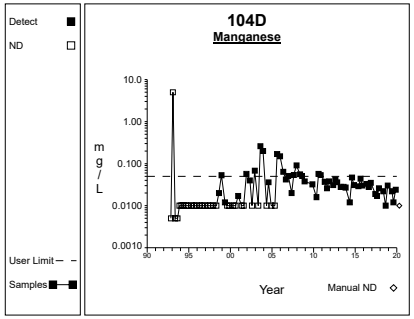


Graph 12

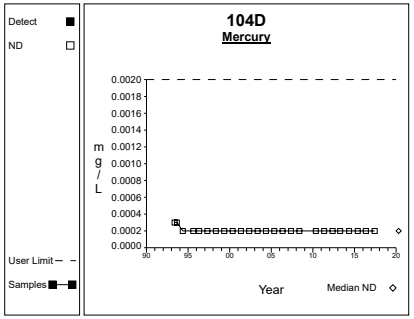
Time Series



Graph 13



Graph 14



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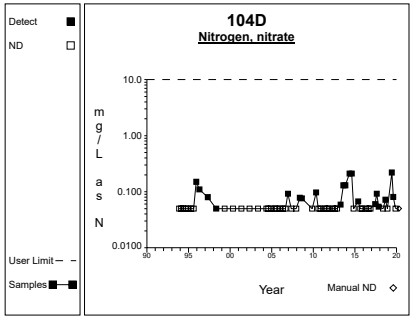
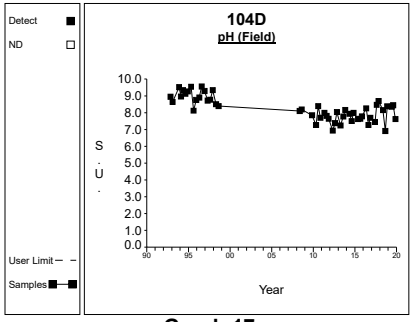
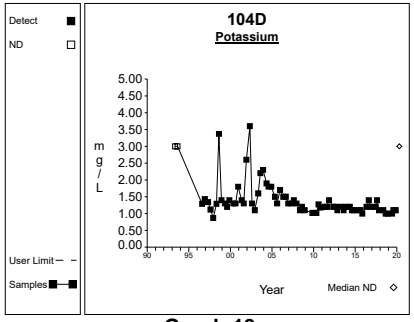


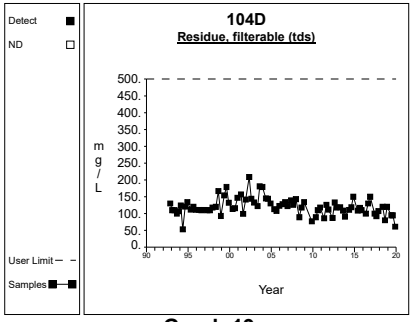
Graph 16



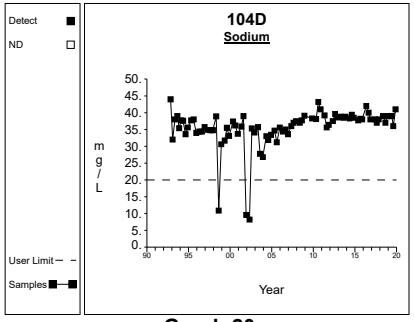
Graph 17



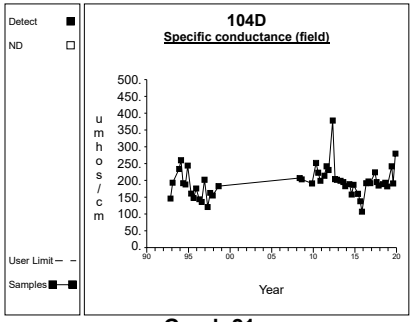
Graph 18



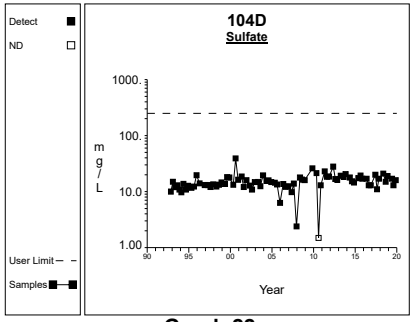
Graph 19



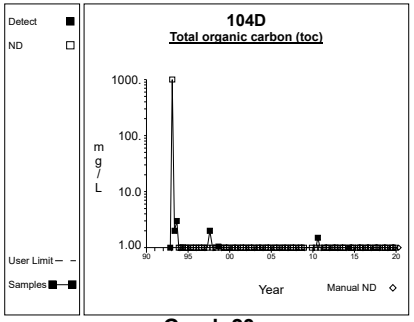
Graph 20



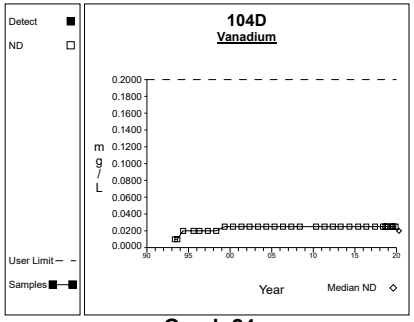
Graph 21



Graph 22

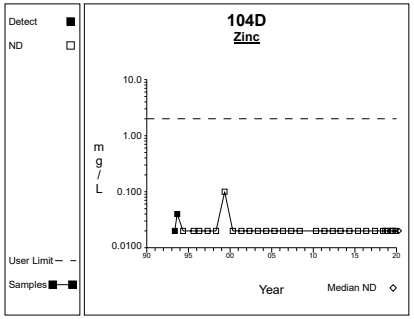


Graph 23

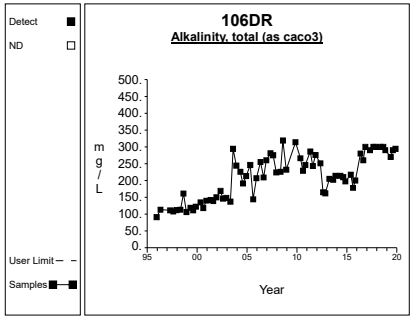


Graph 24

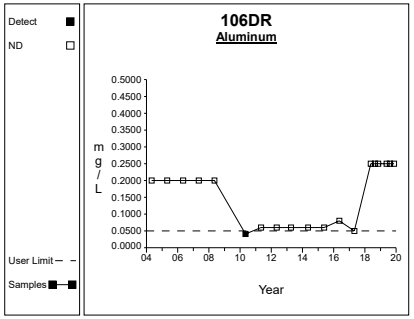
Time Series



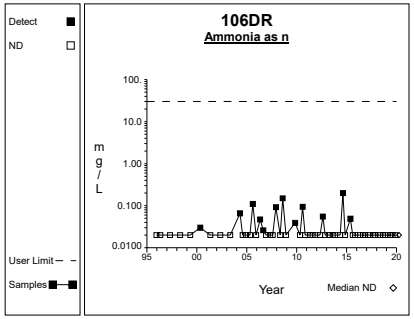
Graph 25



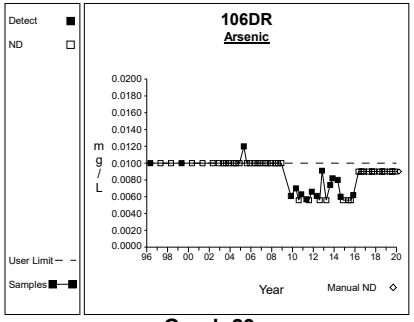
Graph 26



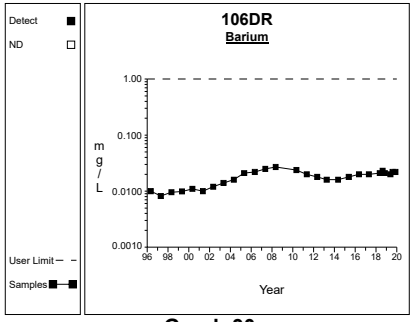
Graph 27



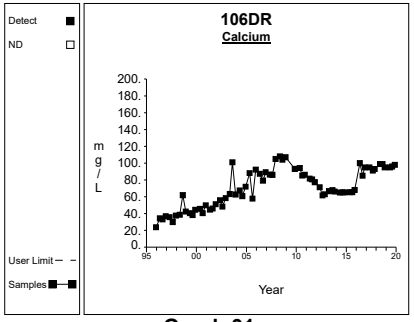
Graph 28



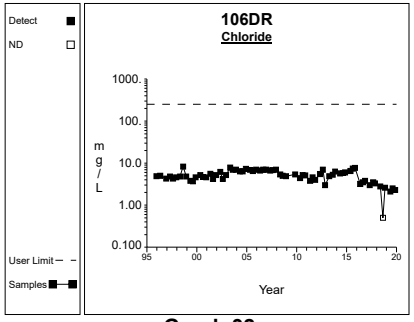
Graph 29



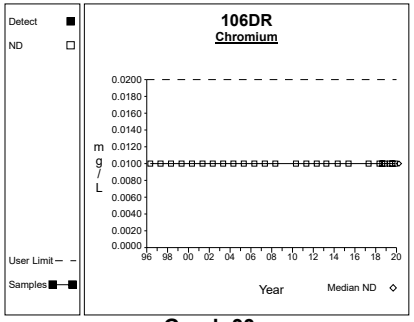
Graph 30



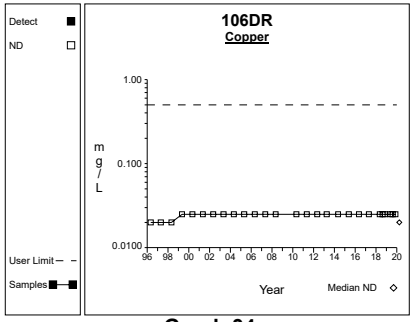
Graph 31



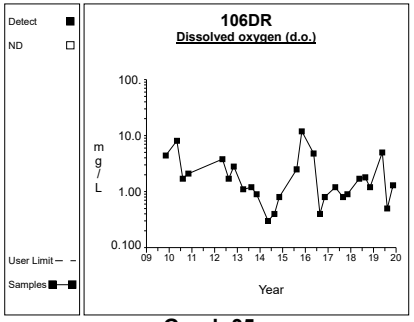
Graph 32



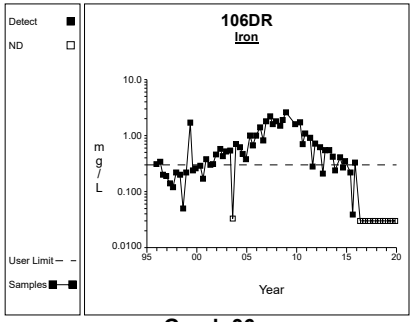
Graph 33



Graph 34

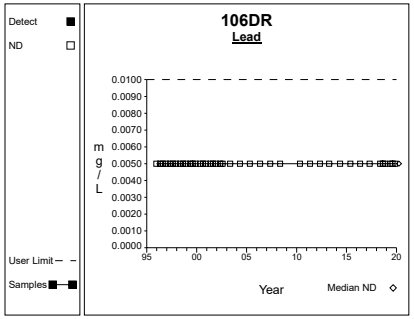


Graph 35

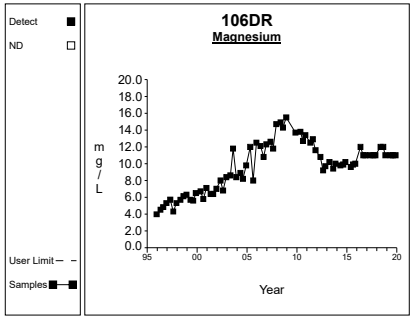


Graph 36

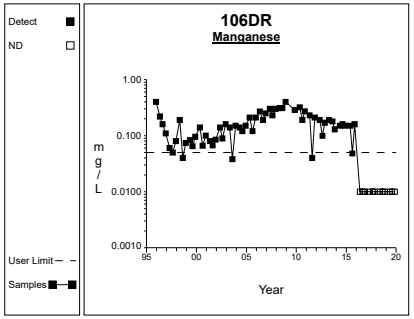
Time Series



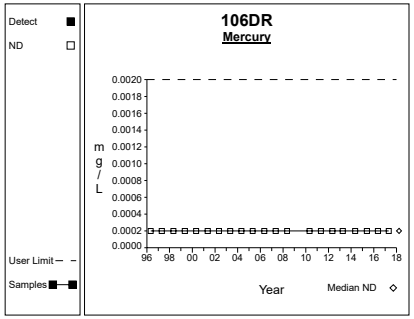
Graph 37



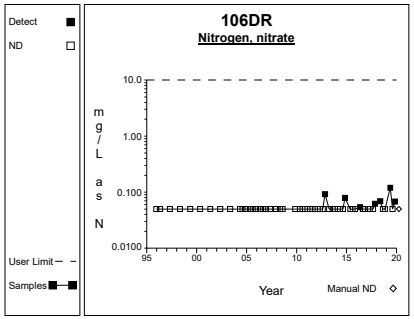
Graph 38



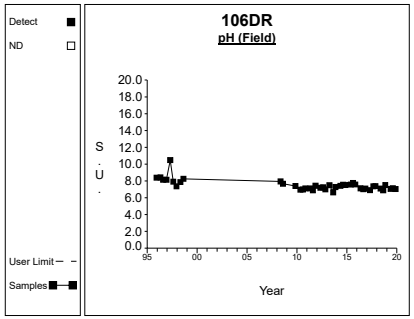
Graph 39



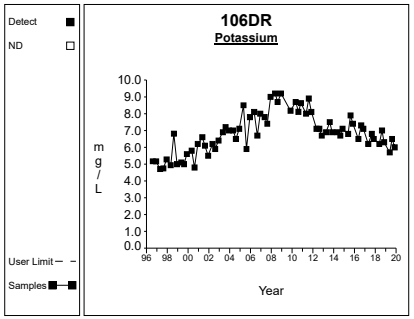
Graph 40



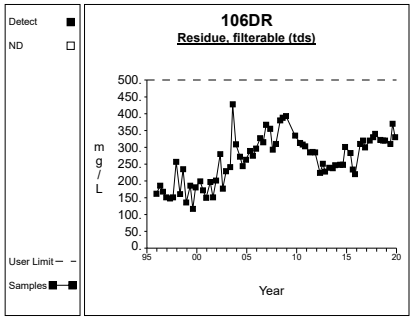
Graph 41



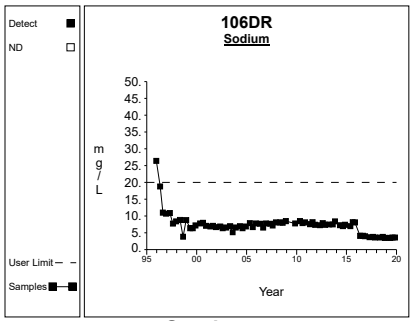
Graph 42



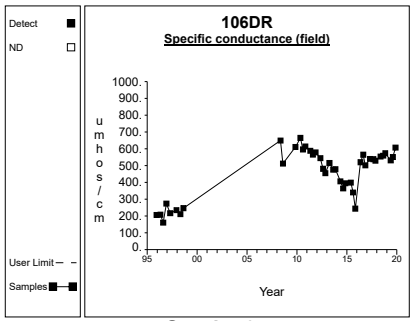
Graph 43



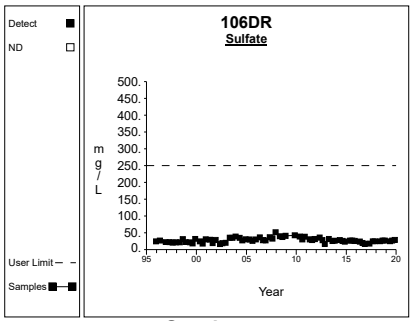
Graph 44



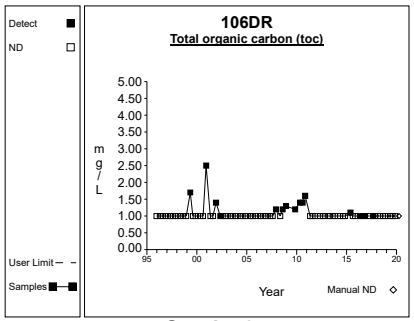
Graph 45



Graph 46

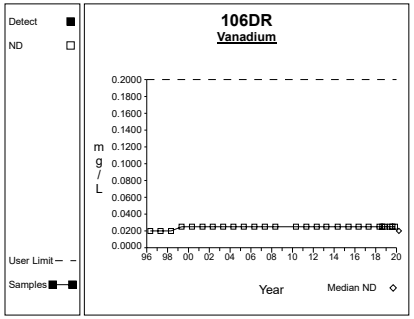


Graph 47

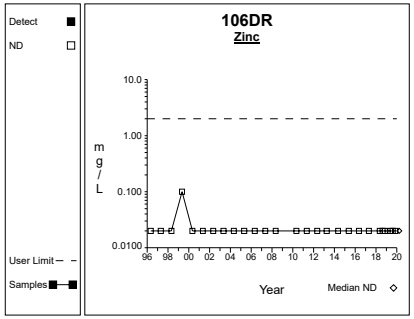


Graph 48

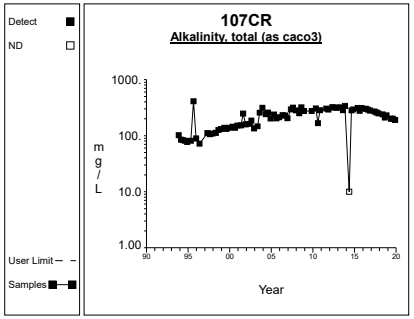
Time Series



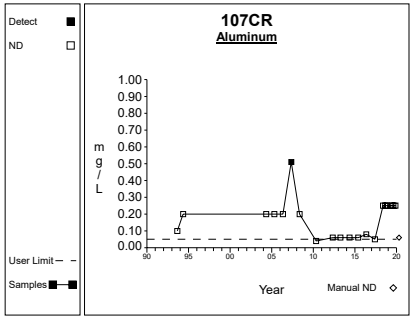
Graph 49



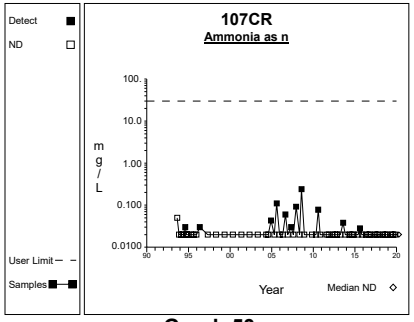
Graph 50



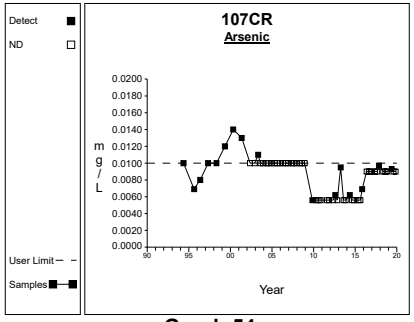
Graph 51



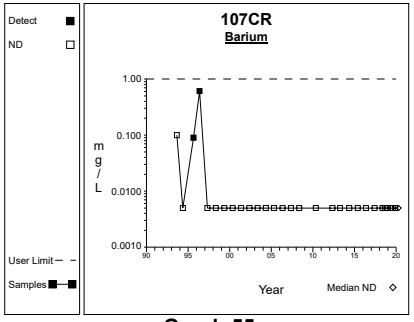
Graph 52



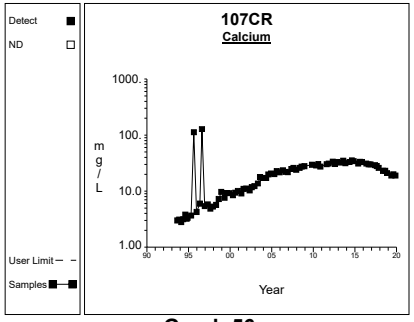
Graph 53



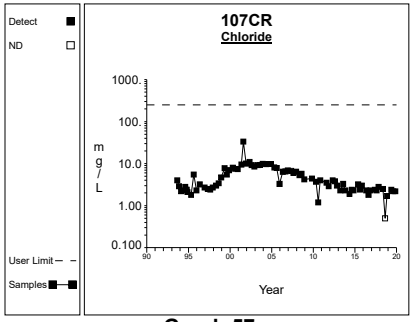
Graph 54



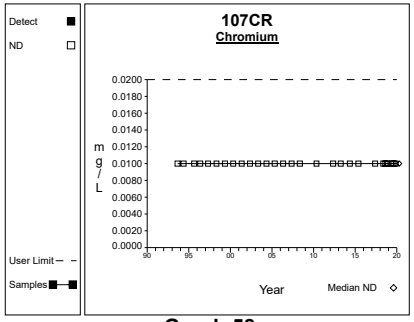
Graph 55



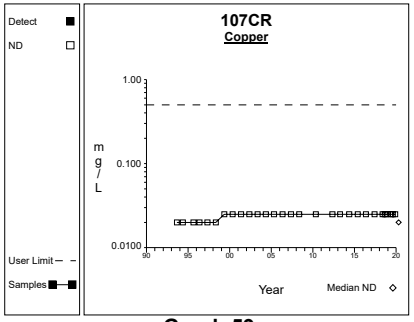
Graph 56



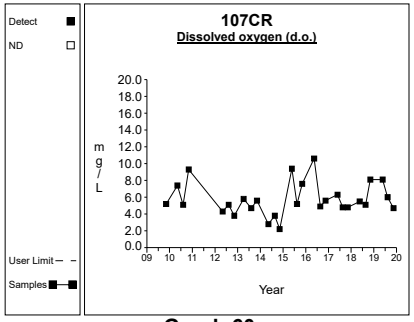
Graph 57



Graph 58

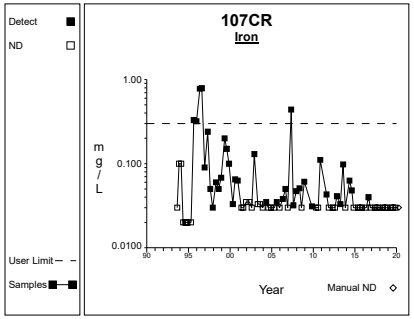


Graph 59

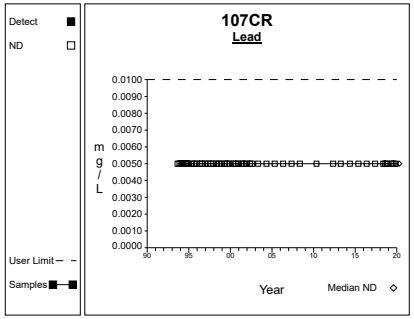


Graph 60

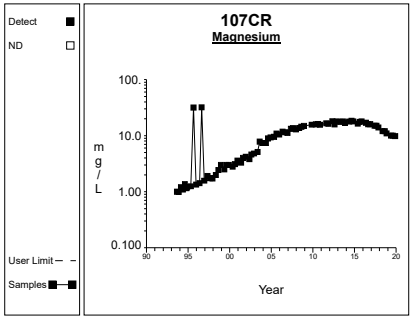
Time Series



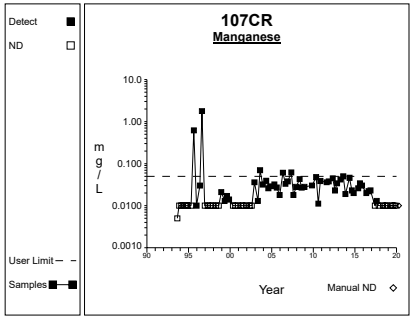
Graph 61



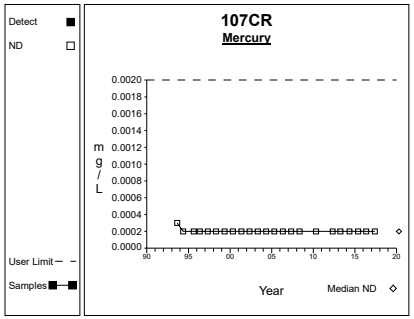
Graph 62



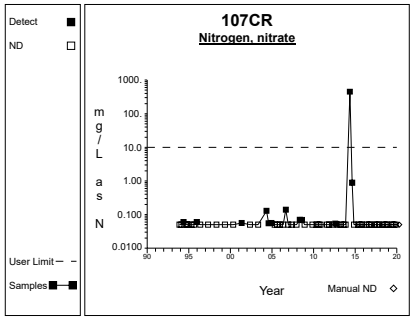
Graph 63



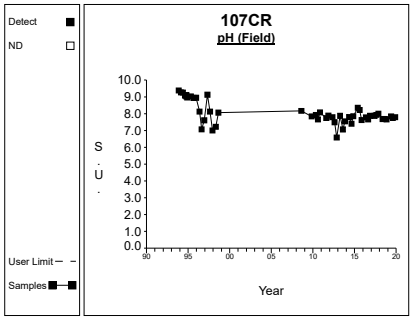
Graph 64



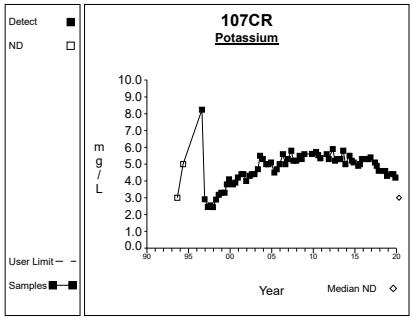
Graph 65



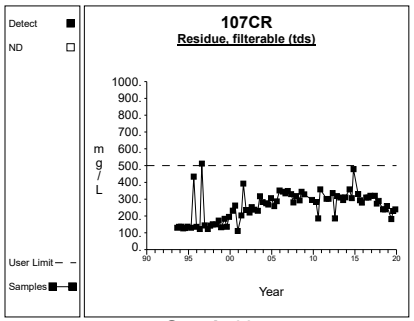
Graph 66



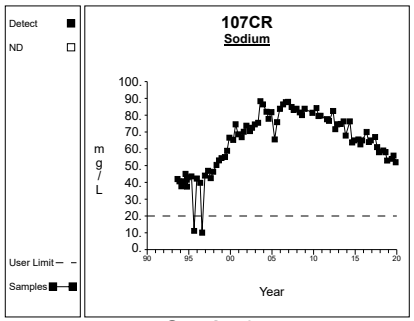
Graph 67



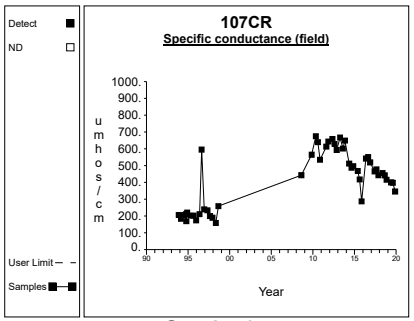
Graph 68



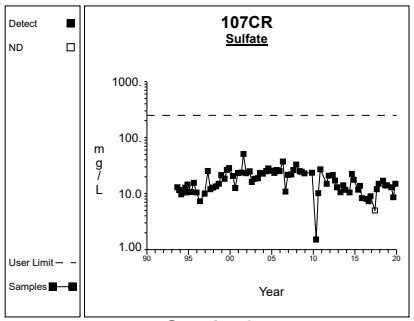
Graph 69



Graph 70

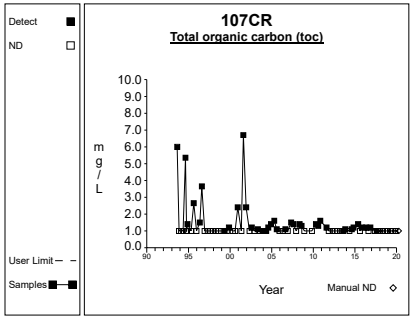


Graph 71

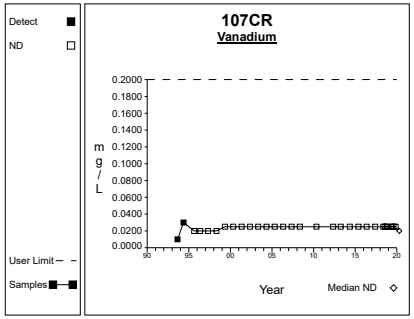


Graph 72

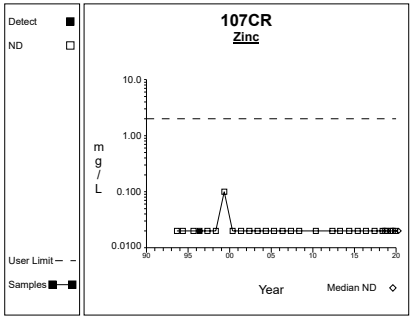
Time Series



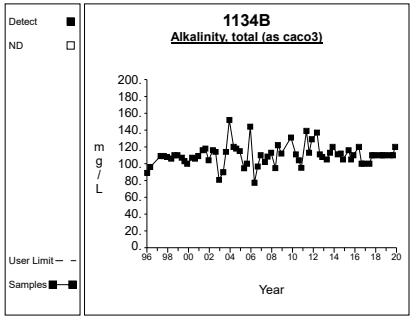
Graph 73



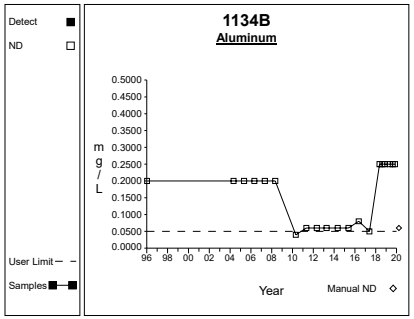
Graph 74



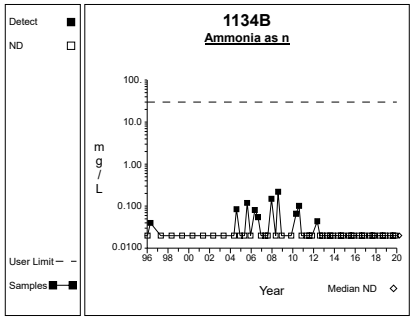
Graph 75



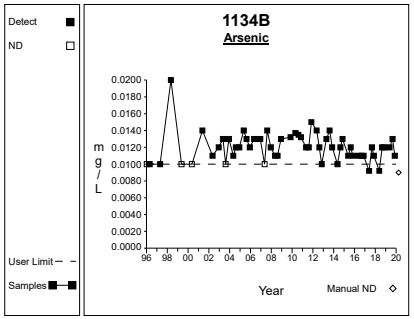
Graph 76



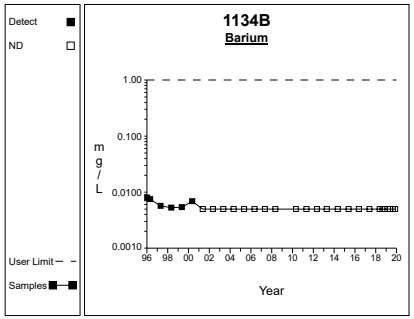
Graph 77



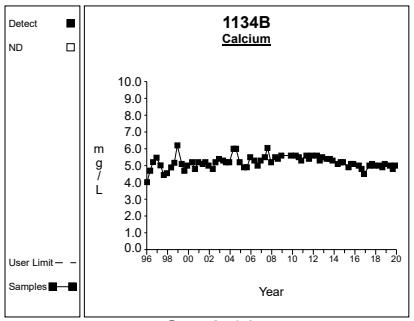
Graph 78



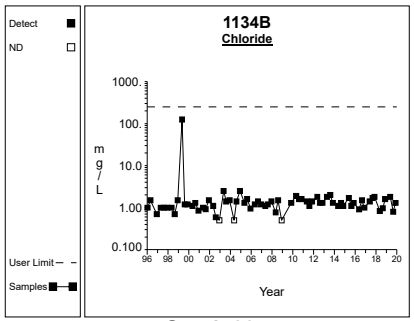
Graph 79



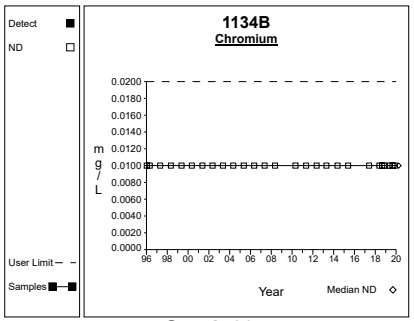
Graph 80



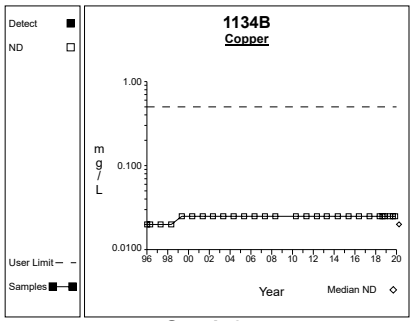
Graph 81



Graph 82

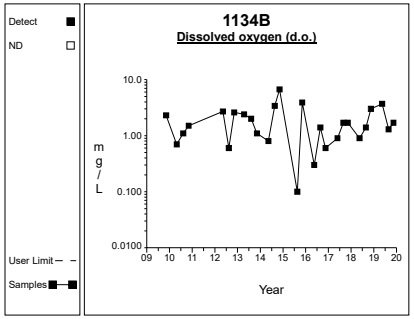


Graph 83

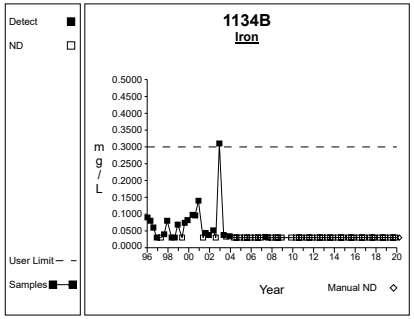


Graph 84

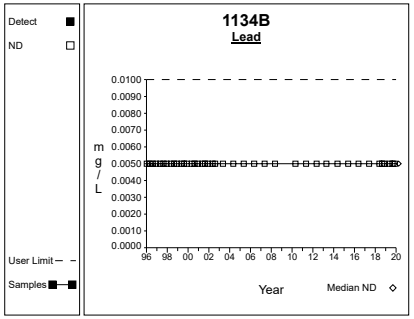
Time Series



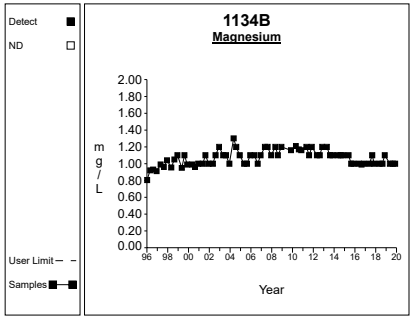
Graph 85



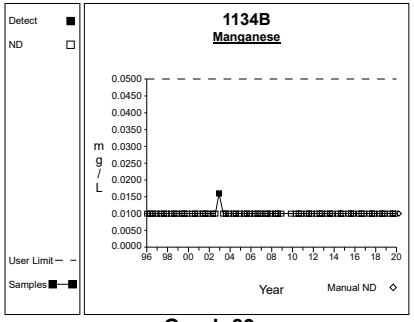
Graph 86



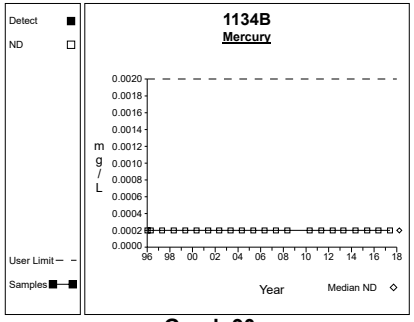
Graph 87



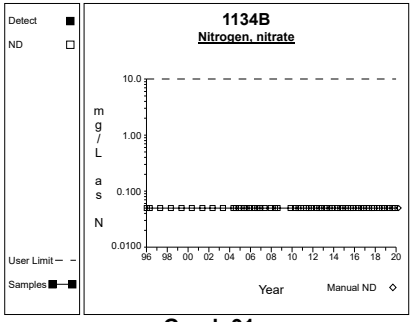
Graph 88



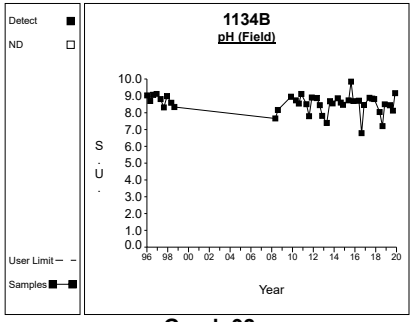
Graph 89



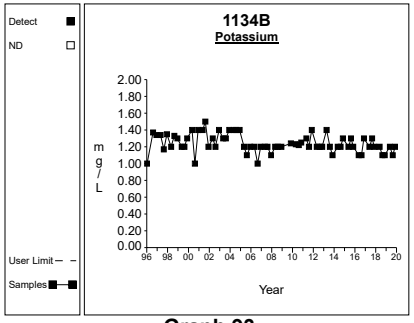
Graph 90



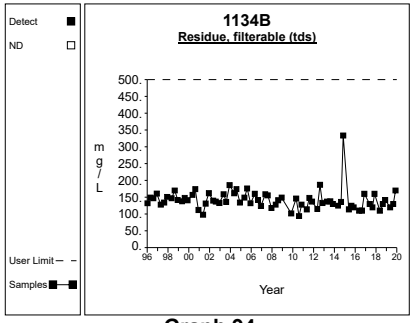
Graph 91



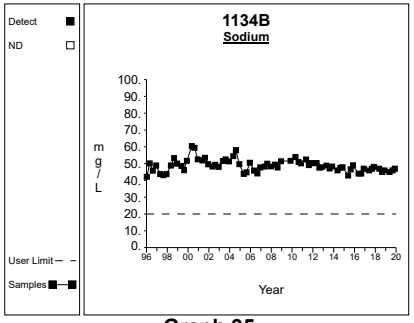
Graph 92



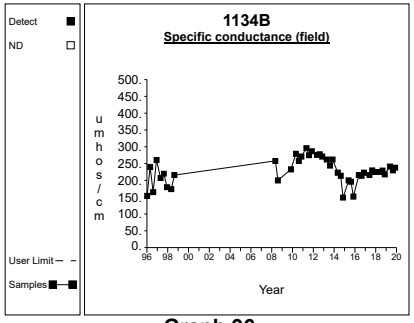
Graph 93



Graph 94

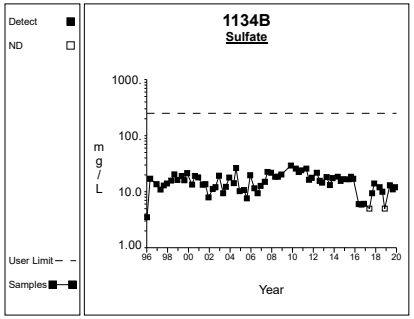


Graph 95

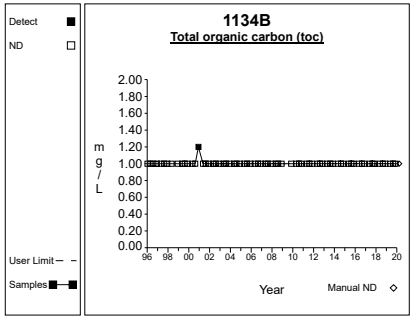


Graph 96

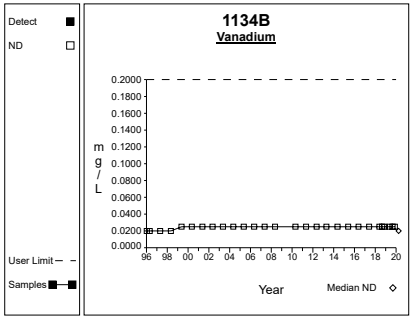
Time Series



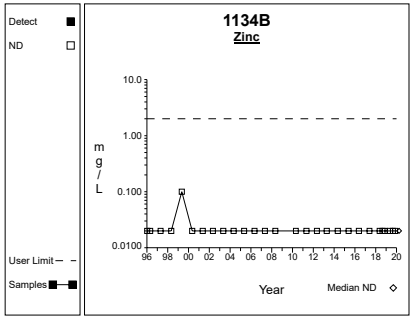
Graph 97



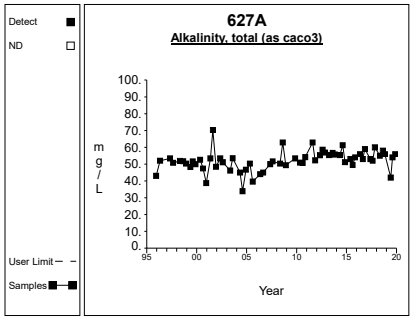
Graph 98



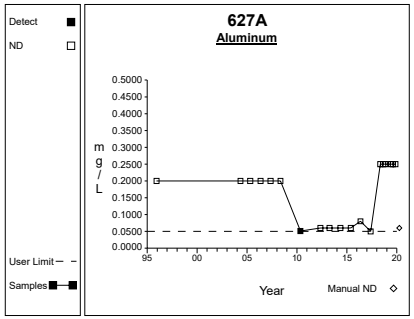
Graph 99



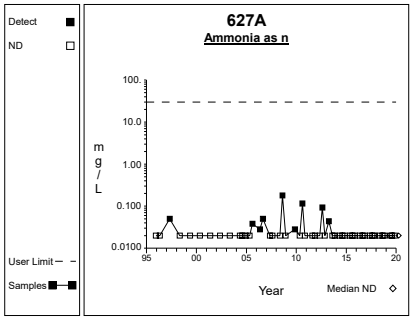
Graph 100



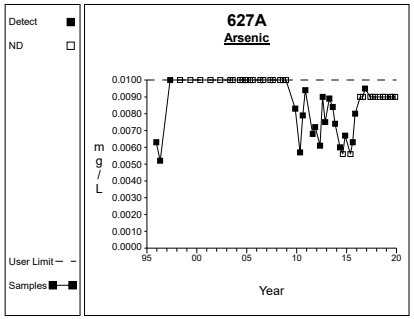
Graph 101



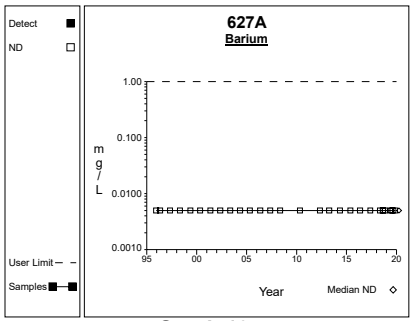
Graph 102



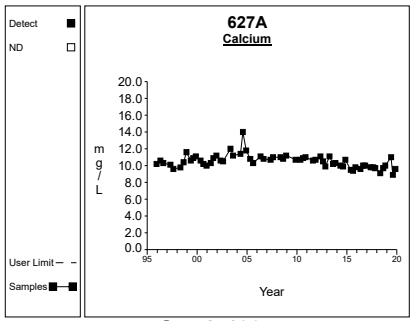
Graph 103



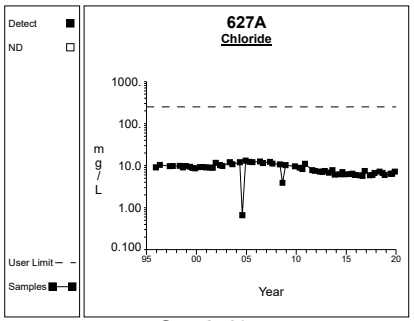
Graph 104



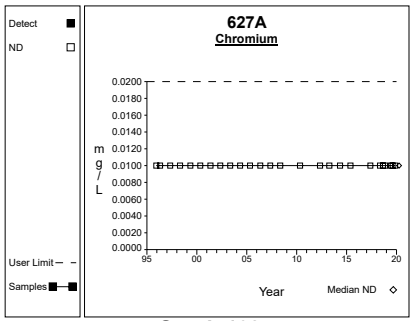
Graph 105



Graph 106

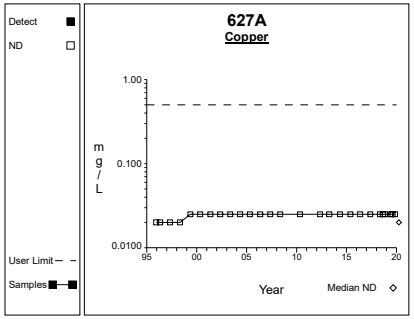


Graph 107

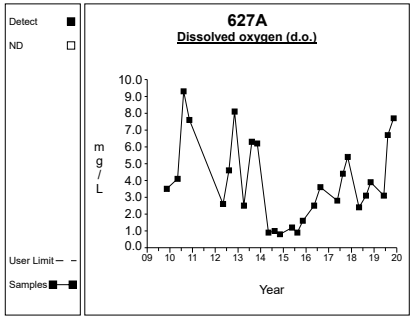


Graph 108

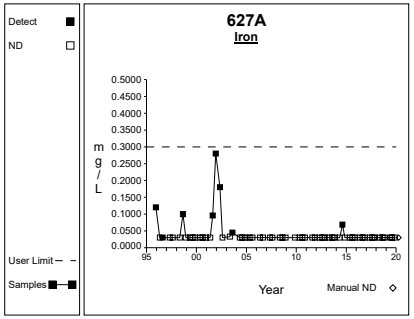
Time Series



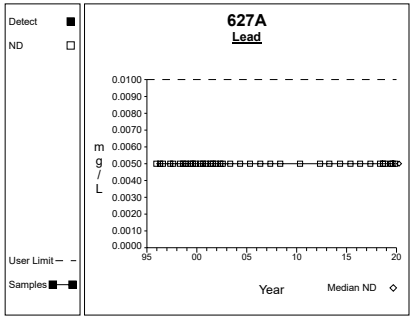
Graph 109



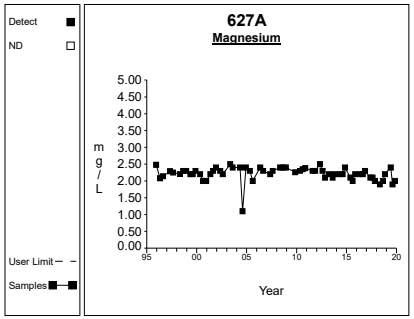
Graph 110



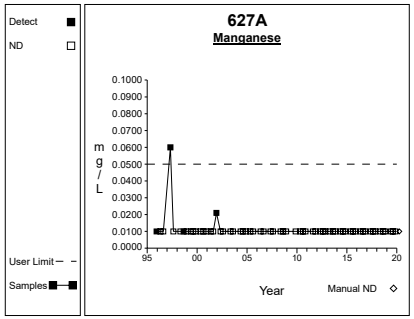
Graph 111



Graph 112



Graph 113



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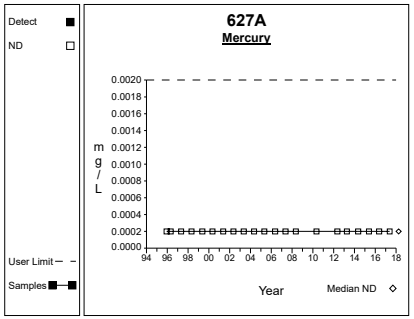

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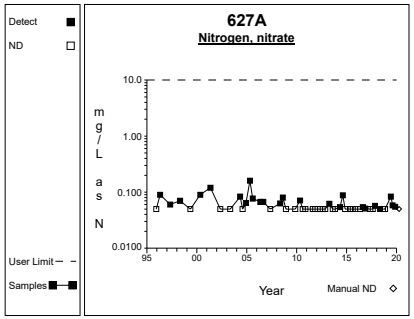

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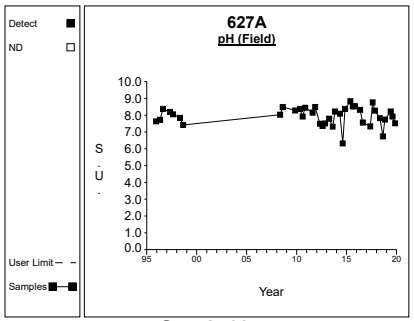

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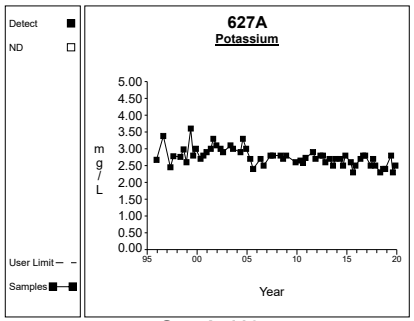

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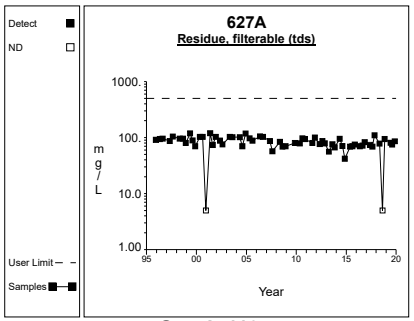

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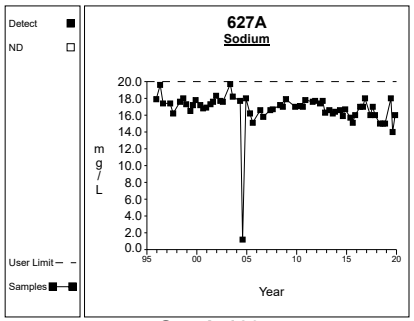
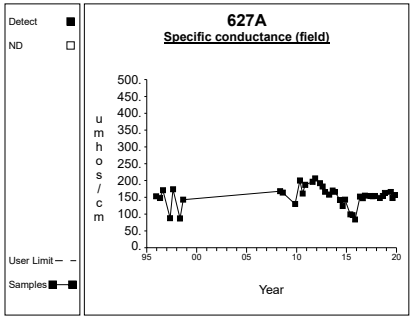


Graph 120

Time Series



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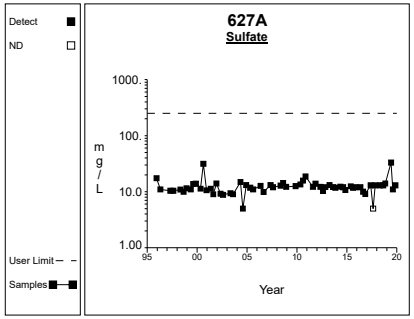

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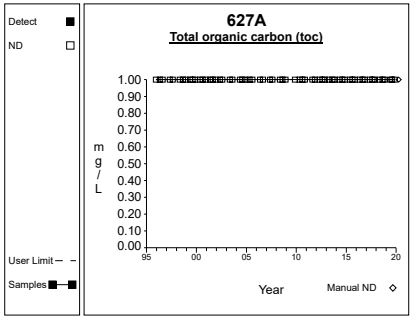

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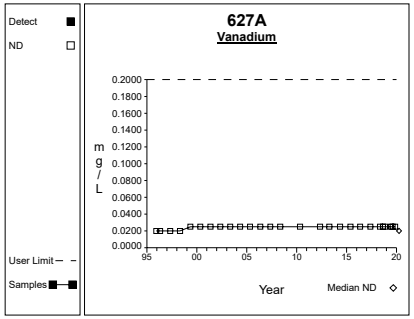

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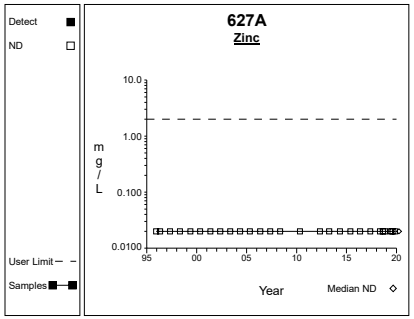

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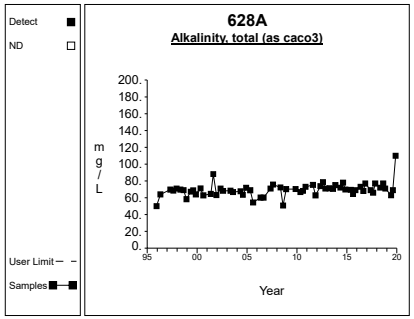

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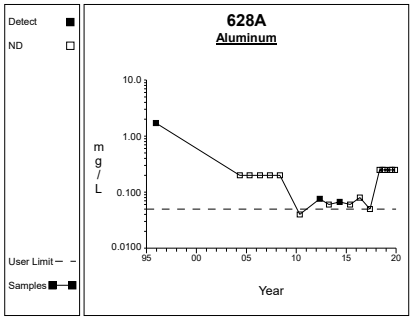

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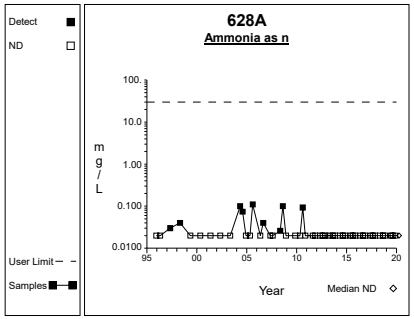

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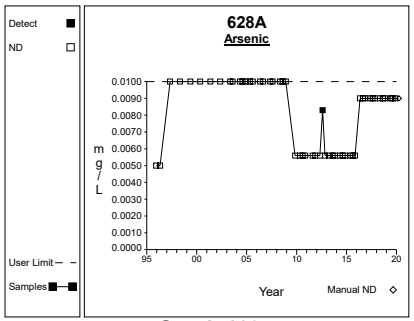

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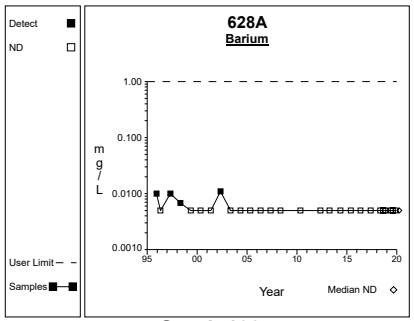

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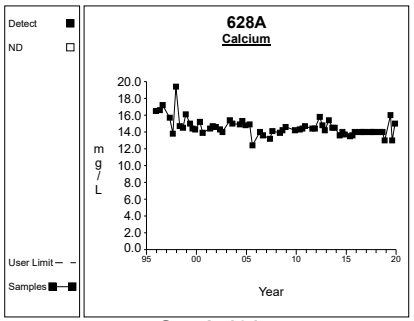

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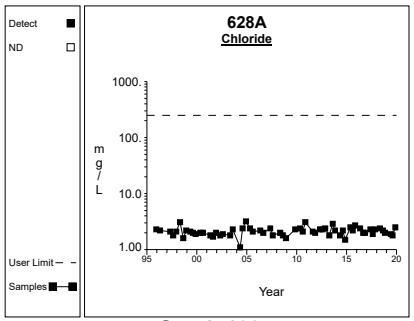
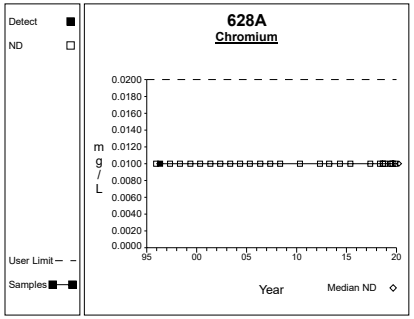


Graph 132

Time Series



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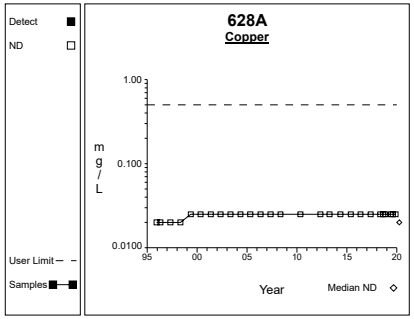

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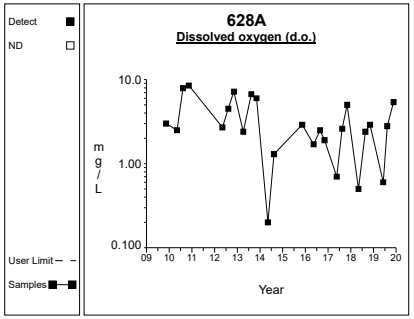

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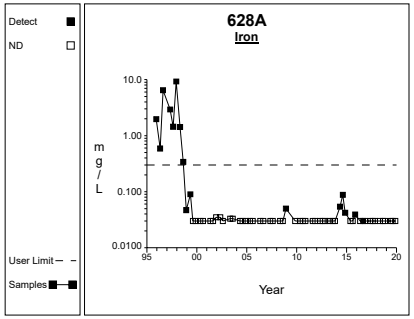

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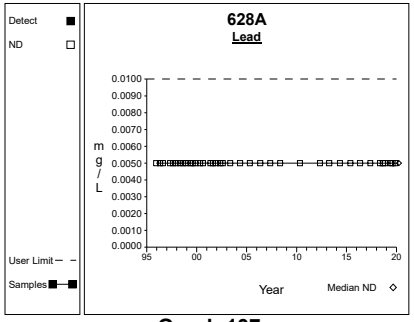

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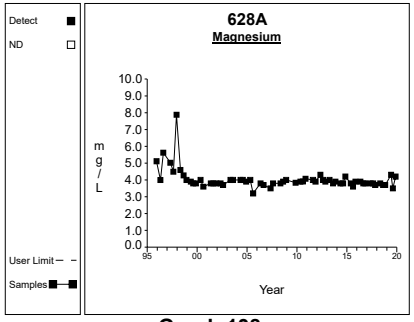

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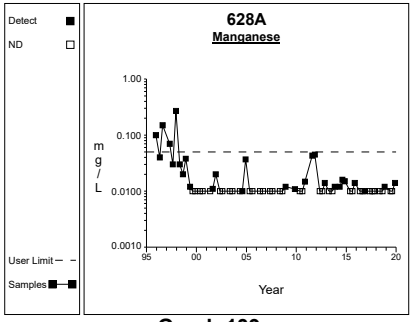

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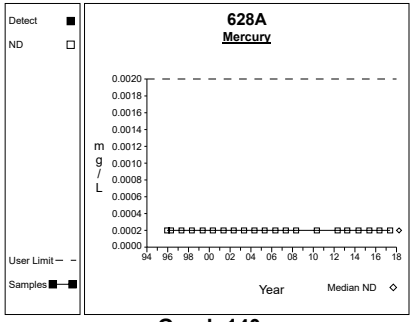

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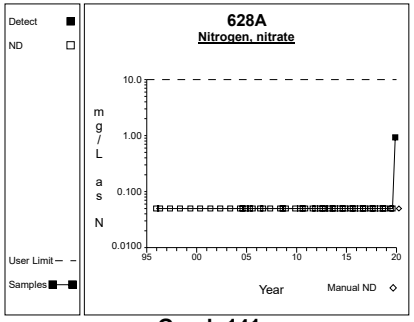

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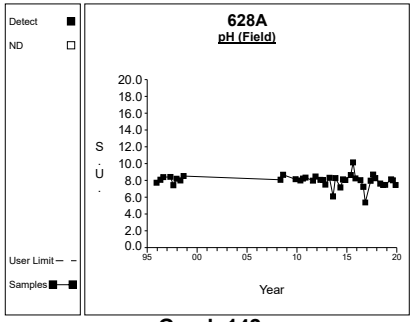

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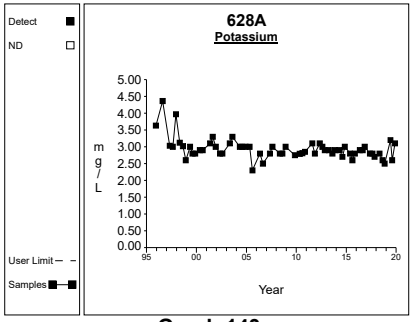

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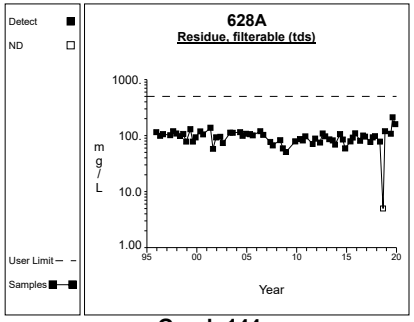
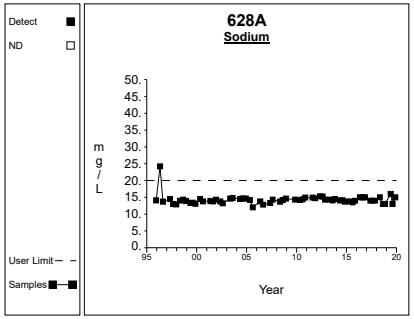


Graph 144

Time Series



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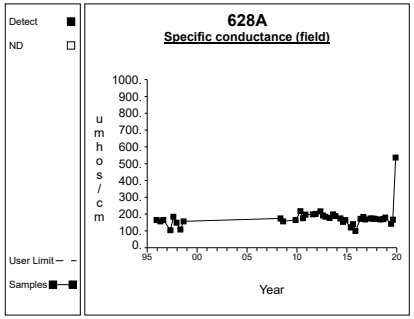

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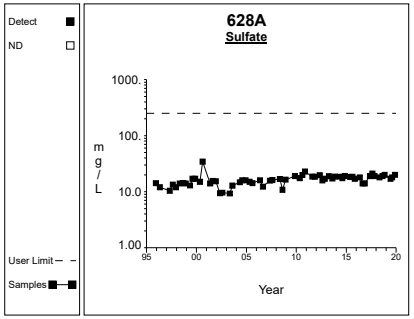

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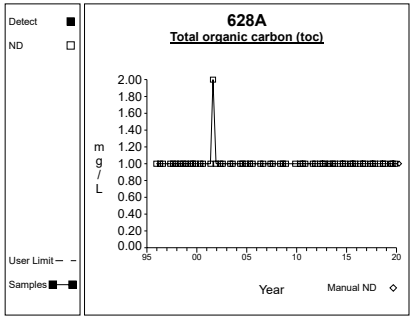

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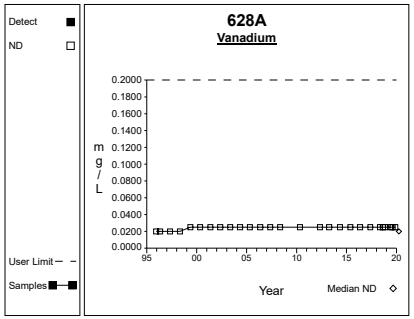

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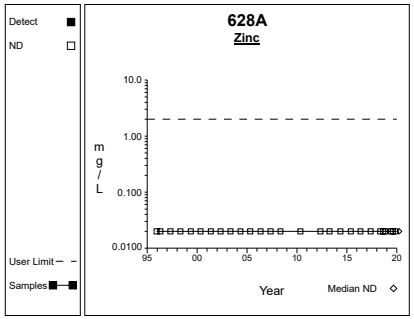

Graph 150

APPENDIX N

Response to MEDEP August 6, 2019 Comments

April 9, 2020 Project No. 20137272

Ms. Linda J. Butler, Licensing & Compliance Specialist
Maine Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017

RE: RESPONSE TO MEDEP AUGUST 6, 2019 REVIEW COMMENTS
2018 ANNUAL REPORT-SUMMARY OF 2018 ENVIRONMENTAL MONITORING INFORMATION
WASTE MANAGEMENT DISPOSAL SERVICES OF MAINE, INC. – CROSSROADS LANDFILL
NORRIDGEWOCK MAINE

Dear Ms. Butler:

On behalf of Waste Management Disposal Services of Maine, Inc. (WMDSM), Golder Associates Inc. (Golder) is providing this memorandum in response to the Maine Department of Environmental Protection's (MEDEP's) August 6, 2019 review comments on the 2018 Annual Report, Appendix F, Summary of 2018 Environmental Monitoring Information. The following section summarizes MEDEP's comments and Golder's responses.

Comment 1: Preservation and Technical Holding Times – 4.2.2. We appreciate for checking hold times. In the future, if analytical results were compromised by inadequate QC and the results were not detection, please use a "UJ" flag. This will indicate that although the parameter was not detected, it could be because it was out of the hold time.

Golder's response: For all future sampling events, Golder will use a "UJ" qualifier to indicate a non-detect result analyzed outside of holding time.

Comment 2: Statistical Analysis – 5.9. The statistical analysis and evaluation of the results is very thorough and well-presented. In general, MEDEP concurs with the conclusions which are consistent with our assessment. We would like some clarification, however, of the explanation for the increasing concentrations at W12-5E and W11-4E. Our understanding of the explanation is that connate water is being squeezed out of the clay into the groundwater by the overlying weight of the landfill. It's an interesting suggestion, but we wonder why the chloride concentrations wouldn't be high in the groundwater if there is connate water in the clay, which would essentially be seawater. The chloride concentrations at both these wells are quite low (<6 mg/L).

Golder's response: The trend in chloride concentrations at W11-4E follow the same trend as the other parameters, although the magnitude of change is low. Chloride levels increased from approximately 1.5 mg/L in 1999 to approximately 6 mg/L in 2018 (see below). Chloride trends at W12-5E are less distinct. It's possible there was a peak concentration in 2004 (see below).

As observed elsewhere at the Crossroads facility, changes in groundwater chloride concentrations occur quickly relative to the concentrations of other anions and cations, thus making chloride useful for identifying the on-set of

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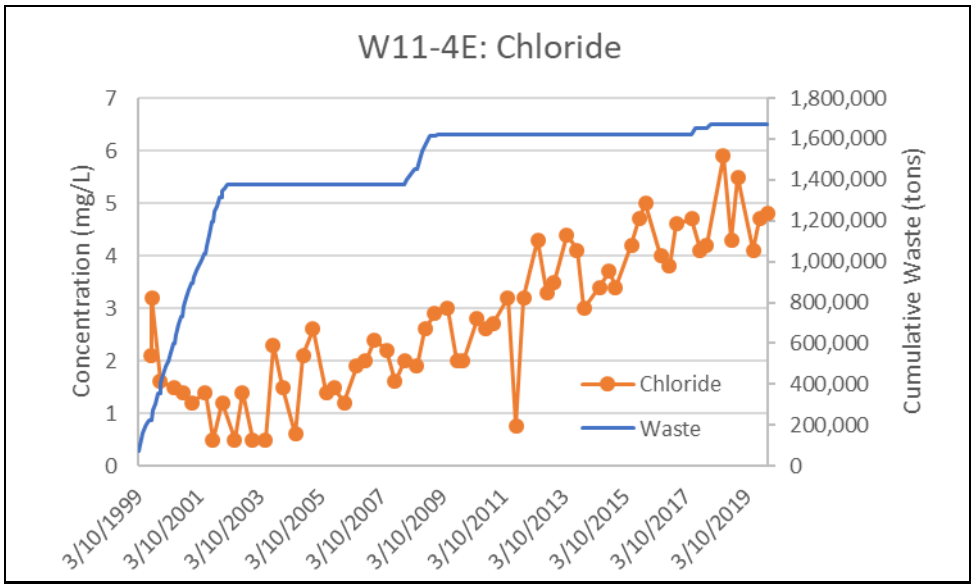
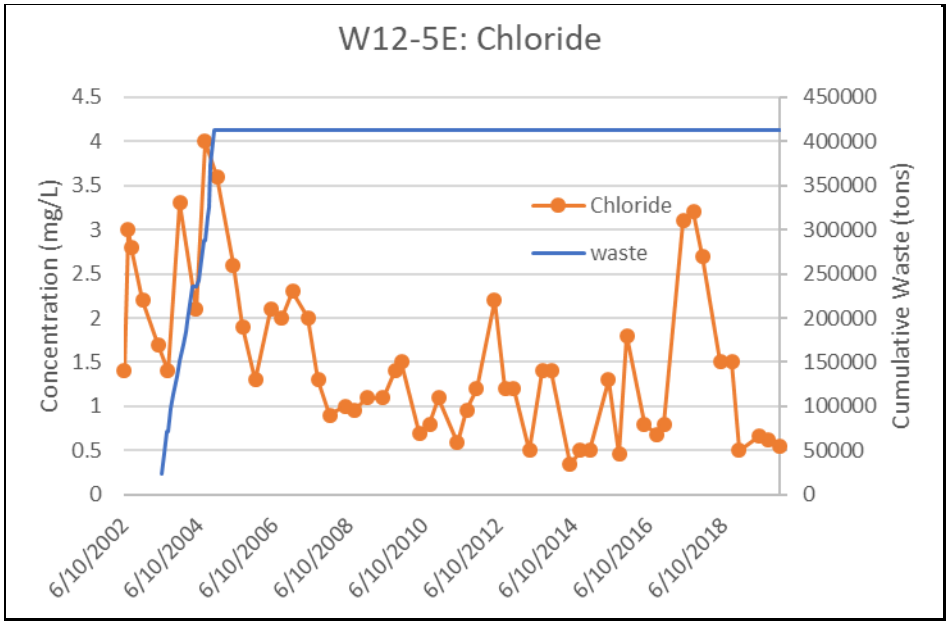
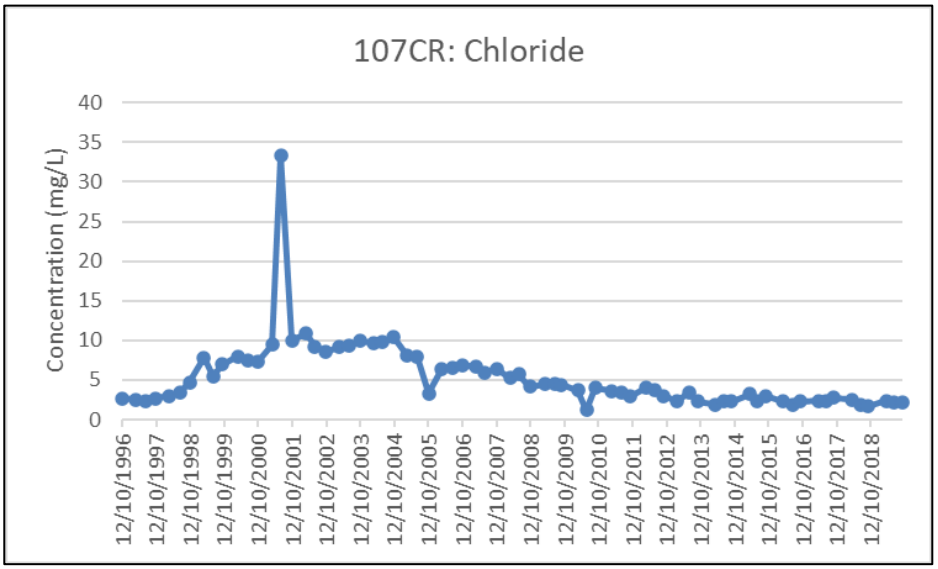
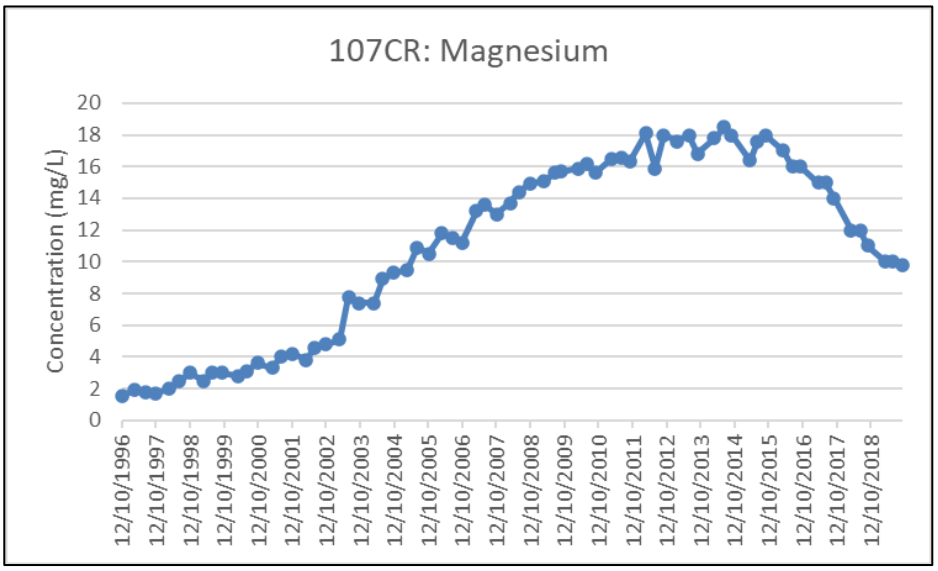
chemistry changes in groundwater because chloride is highly soluble and is rapidly transported in groundwater systems (i.e., chloride has a low retardation factor). However, while chloride is a good indicator for initial changes in water quality, it has been observed to “recover” (i.e., return to initial concentrations) quickly and distinctly. Golder’s suspects that chloride is so rapidly transported as pore water from the gray clay and mixes with phreatic groundwater, that the potential increase in chloride concentrations was not detected in the samples collected. As observed elsewhere at the Crossroads facility, changes in other parameter concentrations take longer to initially observe and the higher concentrations persist much longer. See the example below from monitoring well 107CR.









Should you have any questions about these responses, please feel free to contact Danielle Sylvia Cofelice at 603-668-0880.

Sincerely,

Golder Associates Inc.

Danielle Sylvia Cofelice, EIT
Project Environmental Engineer

Alistair P. T. Macdonald, CPG, LSP
Senior Program Leader and Principal

DFSC/drb

https://golderassociates.sharepoint.com/sites/32118g/deliverables/reports-deliverables/annual report/2019/appendix/appendix n- response to comments/2018 annual report memo comment response 082919 - final.docx

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